

INTERNATIONAL HYDROGRAPHIC ORGANIZATION

Report on a MACHC Seminar on Raising Awareness of Hydrography (and Symposium on
Managing Hydrography in Challenging Environments)

Cuba

27th to 28th November 2017



Jeff Bryant

International Training & Capacity Building Manager

This report includes a brief summary and final recommendations arising from a seminar on raising awareness of hydrography (and maritime services) held in Varadero, Cuba in November 2017. It does not in any way reflect the opinions or policies of the International Hydrographic Organisation or the International Association for Marine Aids to Navigation and Lighthouse Authorities

Report on a MACHC Seminar on Raising Awareness of Hydrography (and Symposium on Managing Hydrography in Challenging Environments)

Outline

A two day Meso American and Caribbean Sea Hydrographic Commission seminar on Raising Awareness of Hydrography (and Symposium on Managing Hydrography in Challenging Environments) was held in the Hotel Melia “Marina Varadero”, Varadero, Matanzas, Cuba from 27th to 28th November 2017. It was delivered by the International Hydrographic Organisation, IALA and industry partners.

The seminar was attended by 15 participants, 4 observers, 10 lecturers and 2 support staff from 18 countries. A list of participants is at Annex B

Seminar Programme (see Annex A)

Note all presentations are available to view on the MACHC website

Day 1 – Monday 27 November 2017

0910 Mr Jeff Bryant (International Training & Capacity Building Manager, United Kingdom Hydrographic Office – UKHO) opened the seminar by introducing 2 of the 3 organisations focussed on the safety of navigation; IHO, and IALA.

This was followed by the 29 participants, lecturers and observers introducing themselves.



Session 1 – International Organisations

0930 Mr Alberto Costa Neves, Assistant Director of the IHO Secretariat opened the first session with an overview presentation on behalf of the IMO focussing on a) the UN’s ‘delivering as one’ philosophy, b) how this is delivered by coordination between the IMO’s

TCD, IALA's WWA and the IHO's CBSC and c) the importance of accurate technical assessments and mutual understanding

1015 Mr Mustafa Iptes, IHO Director gave an overview presentation of which highlighted Coastal State Responsibilities and obligations and how they relate to SOLAS Chapter V, especially Regulations 9, 4 and 13. He then linked this with such concepts as the Blue Economy, Blue Governance, Sustainable Oceans and MSDI.

1115 Mrs. Gerardine Delanoye, Programme Manager of the IALA World-Wide Academy delivered a presentation on *Aids to Navigation delivery and international compliance*. She informed on the work of IALA in relation to developing countries. After that she explained what are the obligations of AtoN Competent Authorities and how to prepare for the IMSAS audit with regards to AtoN provision, and how Technical Missions are conducted.

Session 2 – Coastal State Responsibilities and Obligations

1120 Mr Mustafa Iptes, IHO Director gave an overview presentation which highlighted Coastal State Responsibilities and obligations and how they relate to SOLAS Chapter V, especially Regulations 9, 4 and 13. He then linked this with such concepts as the Blue Economy, Blue Governance, Sustainable Oceans and MSDI.

Session 3 – Meeting National Hydrographic Obligations / Working with your Primary Charting Authority (PCA)

1400 There are six nations in the MACHC region which will be subject to IMSAS (IMO Member State Audit Scheme) visits in 2018 (Guyana, Suriname, Barbados, St Lucia, Grenada and Costa Rica) bearing this in mind the IMO had forwarded an informative presentation on the subject which was delivered by Mr Alberto Costa Neves

1430 Mr Alberto Costa Neves then presented on the IHO CB Strategy with a particular focus on the three Phases and what they mean before introducing a new CB Procedure 11 which brings a point based system to the assessment of where a coastal state features on the IHO's maturity model.

1450 Following the theme of PCA / Coastal State interaction, Mr Jeff Bryant the UKHO's International & Capacity Building Manager gave a short presentation on the Provision of data – what sort of data does a PCA require? As well as describing the data types which PCA's require to keep nautical charts and publications up to date, Mr Bryant introduced a joint UKHO / UK Harbour Masters publication entitled the 'Harbour Masters' guide to hydrographic and maritime information exchange'. He also described the history behind why the two organisations found it necessary to produce such a publication.

1515 – 1615 Mr Alberto Costa Neves talked about the importance of accurate nautical information with particular reference to Phase 1 – MSI.

Sessions 4 and 5 The Need for National Hydrographic Committees

1630 - 1700 Mr Alberto Costa Neves described the importance of National Hydrographic Committee's before linking this topic with the requirement for accurate assessments for CB Procedure 11 (described above). Mr Costa Neves and Mr Bryant led an interactive session to review the assessments made for both (whether an NHC has been established and the Phase attained) in the current MACHC CB Plan for 2018-2020 (Annex A refers)

Day 2 – Tuesday 13 December

Session 6 Data Collection & Processing

0900 – 1015 Mr Carlos Tejada of HYPACK commenced the day's proceedings with a very clear overview of the various parameters which need to be considered before embarking on a hydrographic survey. This set the scene for Mr Derrick Peyton of IIC Technologies who gave a fascinating presentation on the environmental challenges IIC surveyors recently faced when surveying the Rio Indio river in Panama. This UNDP funded survey provided the usual challenges of vertical datums in a river environment, but also the impacts of rain and the tree canopy interfering with GPS.

Session 7 Data Management

1100 to 1300 Mr John Pepper of OCEANWISE spoke at length on why data management (Governance) matters, the challenges of a) the management of large volumes of hydrographic survey data and b) the concept of the Marine Spatial Data Infrastructure set against the sobering statistic that 90% of all data had been created in the past two years and this was accelerating. Mr Pepper also highlighted the UN GGIM (Global Geospatial Information Management) which has defined thirteen data themes, one of which is elevation. He also opined that there is currently no standard for managing data.

Session 8 Data Collection & Processing cont.

The afternoon session commenced with a further presentation on Data Collection from Mr Marc Keibel of Fugro whose presentation focussed on deep water/big data collection and how Fugro had developed their ROAMES Marine Asset Management Solution to cut down on the time taken to process the resulting data (3 hours instead of 6 months). Marc also introduced Fugro's OARS (Offshore Application Remote Survey) system which took the human out of data collection and predicted that there will be more change in the next 10 years than for the previous 30 years.

Session 9 Professional Qualifications / Development for Hydrographers

1430 – 1600 Mr Derrick Peyton of IIC Technologies opened this session with a presentation on a Canadian Individual Recognition Scheme before handing over to IMarEST (the Institute of Marine Engineering Science & Technology) where Director, Mr David Loosley, and Communications Director, Ms Charlotte Lord, presented on the work of IMarEST before introducing the MLA College (Marine Learning Alliance) who had produced a piece of e-learning to support the Seminar. Each participant was given access to a training bundle of

six lectures through a MLA E-Learning App (available from the Apple store). It will be interesting to see what feedback this e-learning generates.

Session 10 Discussion and wrap-up session

1600 – 1630 Mr Jeff Bryant set the scene for the final discussions with a brief presentation on the UN SDG's (Sustainable Development Goals) with a focus on SDGs 9 and 14 and the importance of keeping these two in harmony. A lively interactive discussion ensued and Director Iptes highlighted the importance of the UN GGIM and its recently developed Marine Geospatial Information Working Group and the 2030 Sustainable goals - which we ignore at our peril.

The seminar closed at **1645** after a brief closing ceremony

Conclusions

This joint IHO/IALA seminar achieved its aim of raising the awareness of 16 participants to their obligations under SOLAS to deliver hydrographic services in the 15 countries from which they came while also giving them a practical overview of managing hydrography in challenging environments.

The seminar would not have been the success it was without the superb administrative support provided by the Oficina Nacional de Hidrografia y Geodesia, in particular Colonel Alfredo Regalado Gomez and Mr Jorge Martin Ruiz who were ably supported by the staff of the Hotel Melia Marina Varadero. The thanks of all who participated in the seminar are noted in this report.

It is recommended that a fifth seminar be held ahead of MACHC19 in 2018 to further raise hydrographic awareness in this strategically important region.

Annex A

Seminar on Hydrographic Governance and Managing Hydrography in Challenging Environments Cuba November 2017



DRAFT PROGRAMME

Day 1 – 27 November 2017			
Time	Event	Content	Chair/Presenter
09:00 – 10:00	Opening Session	Opening Ceremony Introduction of participants Objectives of the Seminar	
10:00 – 10:30	Coffee break	Group photograph	
10:30 – 12:00	Session 1	International Organisations and Hydrographic Governance Coastal State Responsibilities and Obligations The International Hydrographic Organisation The International Association of Marine Aids to Navigation and Lighthouse Authorities – Governance of the delivery of AtoN and International compliance	IMO IHO IALA
11:30 – 12:30	Session 2	SOLAS IMO Member State Audit Scheme	IMO and IHO IMO
12:30 – 14:00	Lunch		
14:00 – 15:20	Session 3	Meeting National Hydrographic Obligations IHO CB Strategy and the importance of accurate nautical information (Phase 1 – MSI) Working with your Primary Charting Authority	IHO IHO UKHO
15:20 – 16:00	Session 4	The need for National Hydrographic Committees	IHO
16:00 – 16:30	Tea break		
16:30 – 17:00	Session 5	Hydrographic Awareness and its economic benefit	IHO
19:00	Reception	By host nation	To be confirmed
Day 2 – 28 November 2017			
Symposium on Managing Hydrography in Challenging Environments			
09:00 – 10:00	Session 6	Data Collection & Processing	HYPACK, IIC Technologies and Fugro
10:00 – 10:30	Coffee break		
10:30 – 11:30	Session 7	Data Management	OceanWise
11:30 – 12:30	Session 8	International Development Projects & Accessing Donor Funds	
12:30 – 14:00	Lunch		
14:00 – 15:30	Session 9	Professional Qualification / Development for Hydrographers	IIC Technologies IMarEST
15:30 – 16:00	Tea break		

16:00 – 16:30	Closing Session	Round table discussion	All
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Participants					
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14	Beache	Kemron	St Vincent & The Grenadines	Maritime Admin	director.svgmarad@gmail.com
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Observers					
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4	Matos	Paulo	Brazil	DHN	paulo.matos@marinha.mi.br
Lecturers					
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Hosts and Organisers					
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