



INTERNATIONAL HYDROGRAPHIC ORGANIZATION
MESO AMERICAN & CARIBBEAN SEA HYDROGRAPHIC COMMISSION



MACHC Letter 09 / 2009
11 February 2009

To: MACHC Member States
Subject: **Capacity building plan**
Reference: MACHC Action List 9-5.

Dear Hydrographer,

1. In 2006 Venezuela did a research with MACHC Members requiring information regarding capacity building – necessities and offers. The results may be find at the file “Table Venezuela 2006.pdf” attached to the same e-mail which sent this letter.

In 2008 Mexico did an other research on the same subject. The results may be find at the file “Table Mexico 2008.doc”, also attached to the same e-mail which sent this letter.

2. Both research results may be resumed as follows:

Necessity	Comments
1. Some MACHC Hydrographic Services needed training in multibeam (MB) operation and data processing	From 2006 until now, there were promoted three practical multibeam trainings: - Colombia, Cartagena, SEP 2007; - Mexico, Veracruz, JUN 2008; - Brazil, Niterói, NOV 2008 In 2009 there will be promoted a high level MB course in Brazil.
2. Some MACHC HS needed IHO Hydrography Cat A and Cat B courses	These and long range courses. At MACHC web page there are a list of Organizations which offer these courses. (http://www.iho-machc.org/training/welcome.html)
3. Hydrography with small vessels	In 2009 there will be promoted a training on hydrography and basic nautical cartography in Venezuela. In 2010 there will be promoted a training on hydrography of shallow waters, planed to be held in Brazil.
4. Some MACHC HS needed training on Maritime Security Information (MSI)	There was promoted by IHO CPRNW, in Jamaica, June 2007, a MSI training.
5. Some MACHC HS needed training on Geographic Information System (GIS)	In 2011 there will be promoted training on geospatial data processing and management planned to be held in Brazil.
6. Some MACHC HS needed training on processing magnetometer information	x x x
7. Some MACHC HS needed training on Electronic Navigational Chart (ENC) production	In 2009 there will be promoted a training on ENC production in Brazil.
8. Some MACHC HS needed meteorology pos graduated courses	These and long range courses and usually do not directly related with HS and out of scope of MACHC action.
9. Some MACHC HS needed training on equipments	At MACHC web page there are a list of Organizations which offer these trainings. (http://www.iho-machc.org/training/welcome.html)

9th MACHC Action List item 9-5 states MACHC must have a five years action plan. Based on the above written it would be think MACHC hydrographic capacity is well stated. However, S-55 report, MACHC INT Charts and ENC rate productions show different scenery. Furthermore, capacity building is not an activity, but a concept of an always ongoing improvement.

Associated to this task, there is the IHO Capacity Building concept of hydrography development, which is divided in three phases as described in the Annex.

An additional point to be considered is that, until now, capacity building is focusing just on technical capacity. However, management capacity (including planning, to get resources, partnership, etc.) is also as important for hydrographic development as the technical.

3. Finalizing, based on the above written, you are requested to send your comments, suggestions, and requirements (to repeat events, to create events, etc.) on the subject **no later than March 10th 2009**, sending an e-mail to <int.rel@dhn.mar.mil.br>, with a copy to <wesley.cavalheiro@yahoo.com>.

Yours sincerely,



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Vice Admiral (Brazil)
Brazilian Director of Hydrography and Navigation
MACHC Chairman

Annex:
IHO Capacity Building concept

Annex to MACHC Letter 09/2009

IHO Capacity Building Concept

(extract of the IHO Capacity Building Strategic Paper:
http://www.iho-ohi.net/mtg_docs/CB/CBM/DOC1.pdf)

**PHASES OF DEVELOPMENT OF HYDROGRAPHIC SURVEYING
AND NAUTICAL CHARTING CAPABILITY**

