



INTERNATIONAL HYDROGRAPHIC ORGANIZATION
MESO AMERICAN & CARIBBEAN SEA HYDROGRAPHIC COMMISSION



MACHC Letter 21 / 2010
28 October 2010

To:
MACHC Member States

Subject: Course in Marine Cartography

Reference: IHB Circular Letter 68/2010.

Dear Hydrographer,

1. Through the referred Circular Letter the IHB announces a Course in Marine Cartography to be held in the United Kingdom Hydrographic Office, Taunton, UK, from March 7th to April 8th 2011.

Up to 9 trainees will be considered for financing. The support provided by the IHO Capacity Building Fund will cover course fees, travel to and from the respective countries, accommodation and a reasonable living allowance.

Member States interested in provide applications for this course must consult the referred Circular Letter, which is in Annex, and follows its instructions.

Yours sincerely,

LUIZ FERNANDO PALMER FONSECA
Vice Admiral (Brazil)
Brazilian Director of Hydrography and Navigation - MACHC Chair

Copy:
IHB

DIRETORIA DE HIDROGRAFIA E NAVEGAÇÃO, Rua Barão de Jaceguay, S/Nº, Ponta da Armação – Centro, CEP 24048-900 - Niterói, RJ, Tel. (+55 21) 2189-3014 - e-mail: <int.rel@dhn.mar.mil.br>

Note: To improve the Commission's effectiveness, this letter is provided only by e-mail.

ANNEX

**INTERNATIONAL HYDROGRAPHIC
ORGANIZATION**



**ORGANISATION HYDROGRAPHIQUE
INTERNATIONALE**

IHB File N° TA-006 - CBSC-1

**CIRCULAR LETTER 68/2010
21 October 2010**

**IHO CAPACITY BUILDING PROJECT
Course in Marine Cartography
Taunton, UK, 7 March - 8 April 2011**

(1st 5- week Module of the recognized UK Category B Programme by the FIG-IHO-ICA International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers)

Reference: CL 62/2010 dated 6 October (IHO 2011 WP Task 3.5.2.i)

Dear Hydrographer,

1 Under cover of the Circular Letter in the reference, the IHB has sent to the IHO Member States the proposed Work Programme and Budget for 2011. Task 3.5.2.i under Programme 3 of the WP concerns the running of the First module of the Cat. B Marine Cartography training course provided by UKHO (open course), aiming at satisfying the considerable demand for training in nautical cartography, as has been recognized by the CBSC when noting the outstanding number of applications received when organizing similar courses.

2 The CBSC agreed that if resources were made available, it would be important to run a marine cartographic course for a second time, that is to say, the first five week module of the UKHO recognized Cat B programme aiming at developing and promoting human capacity building of technical personnel in developing countries.

3 The course will take place at the UKHO Training facilities in Taunton, UK, from 7 March to 8 April 2011. A summary of the Course Programme is provided in Annex I.

4 Up to 9 trainees will be considered for financing. The support provided by the CB Fund will cover course fees, travel to and from the respective countries, accommodation and a reasonable living allowance.

5 IHO Member States of developing countries are kindly invited to consider nominating one suitable candidate who would benefit from this training. The Chairmen of Regional Hydrographic Commissions are invited to share this information with their respective Associate and Observer Members in developing countries so that they can also consider applying for this training opportunity.

6 The Application Form (Annex II) should reach the IHB **no later than 30 November 2010** and should

be addressed to:

Captain Hugo GORZIGLIA
IHB Director
International Hydrographic Bureau
4, Quai Antoine 1er.
98011 Monaco Cedex
Tel: + 377 93108100 Fax: +377 93108140
Email: hgorziglia@ihb.mc

The IHB will make the selection. Selected candidates **will be informed no later than 10 December 2010.**

7 It is essential that candidates are employed by the hydrographic office, the port authority or related national agency of their country. The nomination must be originated by the employer and should include a statement specifying that the candidate is involved in, or will be involved in, the production and maintenance of navigational charts and, once the training has been successfully completed, will continue in this field.

8 The authority nominating candidates should carefully select the nominee and ensure that opportunities will be in place for the individual to transfer the learning undertaken in a structured manner. This will ensure that the individual and his organization gain full benefit.

9 Nominated candidates should meet the following criteria:

- Very good standard of English, both written and spoken, with reasonable technical English.
- A high standard in mathematics and geography.
- A background in cartography or hydrographic surveying or other relevant experience.

10 Selected candidates will receive detailed logistic information directly from the UKHO in due time.

On behalf of the Directing Committee
Yours sincerely,

A handwritten signature in blue ink, consisting of a large, stylized 'H' followed by a smaller 'G' and a final flourish.

Captain Hugo GORZIGLIA
Director

Encls: Annex I - Summary of the Programme.
 Annex II - Application Form.

Distribution: IHO Member States and RHCs Chairs

IHO CAPACITY BUILDING PROJECT
Course on Marine Cartography
Taunton, UK, 7 March - 8 April 2011

SUMMARY OF THE PROGRAMME

MODULE 1 - MARINE CARTOGRAPHY. A practical introduction to marine cartography and chart construction. This module is recognized as part of the FIG -IHO - ICA Category B Certificate in Nautical Cartography.

The Navigational Chart
The navigational chart - its role and purpose
The navigational chart - History and Development
Type of Chart and Chart user
Chart Projections and Grids
Horizontal Datums
Vertical Datums
Accuracy, Precision and Reliability
Chart Scheming
International and National Organizations
Linear Scales
Latitude and Longitude
Compass Roses; Magnetic Variation.
Bearing and Distance
Navigational Aids
IALA Buoyage System
Lights; Radio Aids
Chart Symbols
Chart text and type styles
Chart Topography
Chart Specifications
Verification procedures
Generalization
Scaling methods
Introduction to surveying
Depths - units; selection; contouring.
Navigational Dangers; Nature of Seabed.
Tidal Theory
Quality Management System.
Chart Compilation; vector capture;
Intellectual Property.
Printing and Finishing;
Network Operating Systems;

IHB File N° TA-006 - CBSC-1

Annex II to CL 68/2010

IHO CAPACITY BUILDING PROJECT
Course on Marine Cartography
Taunton, UK, 7 March - 8 April 2011
APPLICATION FORM

1. FAMILY NAME
- FIRST NAME
- NATIONALITY
- Date of Birth
- Place of Birth
2. Mailing Address
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Telephone
- Fax
- E-mail
3. Present position and description of duties.....
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4. Brief description of candidate's past experience in hydrography and cartography
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5. Candidate's future plans for application of training received on Cartography.....
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Nominee's signature

Attachment: Candidate's Curriculum Vitae

STATEMENT BY THE NATIONAL HYDROGRAPHER

The **Hydrographer of** (or appropriate national authority) requests the IHB to consider this Application Form and confirms that he/she is fully aware of the following conditions which apply to this application:

- 1 The IHO Capacity Building Fund will support course fees, travel to and from the respective countries, hotel accommodation and a reasonable living allowance.
- 2 Insurances and any other expenses are not covered by the IHO Capacity Building Fund. They are the responsibility of the institution submitting the application.
- 3 Should a selected candidate not be able to participate in the course for any reason he/she will be replaced by a candidate from the waiting list and **NOT** by an applicant from the same country.
- 4 Passport and Visa are the responsibility of the applicant or the applicant's administration.
- 5 Where the IHB is informed less than 1 month before the start of the course that a selected candidate is unable to participate in the course, his/her sponsoring institution will be required to refund the IHO Capacity Building Fund any expenses already incurred by the IHB.

Date: _____ Name: _____

Signature: _____