

Dossier du BHI N° TA-6

LETTRE CIRCULAIRE 22/1999

7 mai 1999

**NOUVEAU COURS SUR LA GESTION DES DONNEES HYDROGRAPHIQUES
A L'ACADEMIE MARITIME INTERNATIONALE (AMI) DE TRIESTE, ITALIE**

Monsieur,

L'Académie maritime internationale (AMI) de Trieste a informé le BHI, pour le compte des Autorités italiennes, qu'un nouveau cours sur la gestion des données hydrographiques était prévu pour 1999.

Ce cours débutera le lundi 30 août 1999 et se terminera le vendredi 3 décembre 1999.

Ce premier cours est destiné à douze étudiants de pays bénéficiaires du projet MEDA pour la Méditerranée méridionale et du Sud Est. Il est demandé aux autorités gouvernementales responsables de l'hydrographie dans les douze pays MEDA, d'adresser les demandes de leurs candidats à l'Académie maritime internationale (AMI), via Eduardo Weiss 15, 34127 Trieste, Italie (Téléphone: +39 40 350829, Télécopie: +39 40 350322 et courrier électronique: imoima@imoim.inte.it) par l'intermédiaire de l'Ambassade italienne de leur pays, et d'en adresser une copie au Bureau hydrographique international. **Ces documents doivent parvenir à l'AMI le 26 juin 1999 au plus tard.**

En plus des 12 étudiants susmentionnés, 2 autres seront sélectionnés parmi les Etats membres de l'OHI et les pays qui s'efforcent, avec dynamisme, d'établir ou de renforcer leurs propres services hydrographiques. Les dépenses engagées pour ces deux étudiants seront à la charge de la région Frioul-Venétie Julienne.

La participation de l'AMI couvrira les frais de déplacement, le transport local à Trieste, l'hébergement et les repas. Les dépenses personnelles (argent de poche) sont à la charge de chaque autorité nationale dont dépendent les étudiants. (Voir Annexe 2, page 3).

Vous trouverez des renseignements sur le programme du cours et sur la logistique en Annexe 2, et une copie du formulaire de candidature en Annexe 3.

En raison d'un nombre de places limité, les candidatures non retenues pour ce cours seront prises en considération pour le second cours prévu pour l'an 2000.

Veuillez agréer, Monsieur, l'assurance de ma haute considération.

Pour le Comité de direction
Le Président

Contre-amiral Giuseppe ANGRISANO

- P.J. (en anglais uniquement):
- Annexe 1 - Liste des destinataires
 - Annexe 2 - Renseignements sur le cours et logistique
 - Annexe 3 -Formulaire de candidature et formulaire d'acceptation

DISTRIBUTION LIST

- All IHO Member States
- All MEDA Project 7 countries :

ALGERIA	(IHO Member State)
CYPRUS	(IHO Member State)
EGYPT	(IHO Member State)
ISRAEL	(Non-IHO Member)
JORDAN	(Non-IHO Member)
LEBANON	(Non-IHO Member)
MALTA	(Non-IHO Member)
MOROCCO	(Pending IHO Member)
PALESTINIAN AUTHORITY	(Non-IHO Member)
SYRIA	(IHO Member State)
TUNISIA	(IHO Member State)
TURKEY	(IHO Member State)
- MEDA Project 7 Steering Committee Members:
France, Greece, Italy, Spain, EC DGIB, EC DGVII.
- International Maritime Academy, Trieste, Italy.
- Italian Ministry of Foreign Affairs, Directorate General for Cooperation to Development, Rome, Italy.
- Friuli-Venezia Giulia Region, via San Francesco 37, 34100 Trieste, Italy.
- Province of Trieste, Piazza Vittorio Veneto 4, 34132 Trieste, Italy.
- Trieste Port Authority, Punto Franco Vecchio, 34135 Trieste, Italy.
- University of Trieste, Piazzale Europa 1 (Rettorato), 34100 Trieste, Italy.
- Trieste Chamber of Commerce, Piazza della Borsa 14, 34100 Trieste, Italy.
- Comune di Trieste, Piazza dell'Unità d'Italia 4, 34100 Trieste, Italy.

DETAILS OF THE COURSE

Background

The Hydrographic Data Management course is part of the hydrographic training programme established under the MEDA project. The Meda Project aims at promoting safety of navigation and prevention of marine pollution, as well as the development of maritime transportation and port efficiency.

The course is designed to address the needs of Hydrographic Services and others involved in marine data management who require their personnel to obtain:

- Knowledge in designing and managing integrated data bases of hydrographic and other marine data;
- Knowledge in Geographic Information Systems (GIS), their constitution and use in order to rationalize and speed up the production of specific information which can be derived from database and GIS such as:
 - Nautical information (Nautical Charts, Electronic Nautical Charts, NtMs, List of Lights, Sailing Direction etc)
 - Bathymetric information (Charts, Digital model etc)
 - Coastal management information (thematic charts, bathymetric and tidal models etc)
 - Geophysics and Oceanographic information

Although the course provides a satisfactory theoretical part, it will also be eminently practical, allowing the students to operate on computers using operative systems, Geographic Information systems and Hydrographic Information Systems, present at IMA.

Entry requirements

The course is open to students from Port Authorities, Hydrographic Services and Maritime Authorities and organizations responsible for hydrography in their countries.

The students must hold, at least, a Higher School Certificate and have a good knowledge of the English language, both spoken and written.

Considering the specialization of the course, it would be advisable that participants have the following profile :

- Hydrographers having attended a Cat. A or Cat. B hydrographic course during the last 3-4 years.
- Surveyors and chart makers with good experience and knowledge in geodesy, positioning methods, Single and Multibeam sounding data acquisition, basic knowledge of computer assisted cartography and automated survey systems. Also good working experience with computers.
- H.O's staff members engaged in product generation.

Total duration

The duration of the course is 3 months (456 hours).

Language

The course will be conducted in English.

COURSE OUTLINE

The course lasts three months (13 weeks). Lessons are generally 7 hours per day, from Monday to Friday, with a total number of 456 hours. The course has been subdivided into the following 7 modules, preceded by a General Introduction to the course.

Modules	Hours
GENERAL INTRODUCTION.....	5
1. Basics.....	90
1.1 Mathematics and Statistics.....	10
1.2 Physics and Applied Physics.....	20
1.3 Computers.....	49
1.4 Office Automation Integrated Tools.....	11
2. Information Technology	50
2.1 Theoretical Approach	5
2.2 Geography and Information Technology	30
2.3 Special Issues on Information Technology	15
3. Geographical Information Systems.....	90
3.1 GIS Principles and Criteria.....	6
3.2 GIS Theoretical Approach.....	59
3.3 GIS Special Issues.....	25
4. Hydrographic GIS	105
4.1 HydroGIS Theoretical Approach.....	10
4.2 Data Acquisition	10
4.3 Data Management Work flow.....	18
4.4 Data Quality Management	21
4.5 Use of HydroGIS.....	21
4.6 HydroGIS Special Issues.....	25
5. Hydro Data Management Workflow	100
5.1 Hydro D.M. Theoretical Description and Practice	90
5.2 Management of Multibeam Echosounder Data.....	10
6. Digital Data Exchange Standards.....	11
6.1 Standards	2
6.2 International Standards	9
Recommendations, Resolutions	8
7. Data Management Plan.....	5

LOGISTICS

Accommodation: Twin-bedded rooms (two students per room) for the entire period of the course.

Food arrangements: breakfast, lunch and dinner will be provided by IMA.

Health and accident insurance will be provided.

Pocket money and other personal expenses will be at the charge of the organization to which the student belongs.

Assistance in obtaining a visa may be provided by IMA, but should be the responsibility of the national organization.

Prepaid air tickets will be made available at a selected air company (will be communicated by IMA) in the country.

Note: The air ticket will have to be refunded in case of non-completion of the course

COURSE ON HYDROGRAPHIC DATA MANAGEMENT

From 30 August to 3 December 1999

NOMINATION FORM FOR PARTICIPATION

A completed nomination form should be submitted to the Director of the International Maritime Academy,* Trieste, Italy **through the Italian Embassy**, with a copy to the IHB Monaco**. Nominations should be made as early as possible, using a separate form for each nomination, indicating clearly the Government's priority if more than one participant is nominated:

1. FAMILY NAME

FIRST NAME

OTHER NAME

2. Mailing address

.....

Telephone

Fax

E-Mail

3. Nearest airport where air travel will commence and terminate:

Name of airport

Location

4. Date of birth

5. Sex: Male Female

6. Place of birth

7. Nationality

8. Passport No.

9. Date and Place of Issue

* International Maritime Academy, via Eduardo Weiss 15, 34127 Trieste, Italy.
(Fax: +39 040 350322. e-mail: <imoima@imoimaisdn.inet.it>)

** International Hydrographic Bureau, BP445, MC 98011 MONACO CEDEX, Principality of Monaco.
(Fax: +377 93 10 81 40; e-mail: <info@ihb.mc>)

10. Person to notify in case of emergency:

Name

Address

.....
Telephone

Fax

E-Mail.....

11. Present position and description of duties

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12. Educational background

.....

.....

13. Previous experience.....

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Nominee's signature

The above-mentioned person is nominated as our first/second possible participant in the course

Name and signature of Government official authenticating this nomination

Title.....

ACCEPTANCE FORM

I hereby accept the invitation of the International Maritime Academy (IMA) to participate in the Course on Hydrographic Data Management (30 August to 3 December 1999).

I confirm that:

1. I will refrain from engaging in political, commercial and any activities other than those governed by the course programme;
 2. I will advise the Academy immediately if I am unable to attend the course; and
 3. I will travel to Trieste, Italy and return to my home country at the end of the course, as appropriate, by the route designated by the Academy.

Signature of Participant.....

Name of Participant.....
(Printed)

Address.....

Date