

**CALL FOR APPLICATIONS FOR TRAINING UNDER THE IHO - NIPPON FOUNDATION
GEOSPATIAL MARINE ANALYSIS AND CARTOGRAPHY (GEOMAC) PROJECT, UKHO,
TAUNTON, UK**

Reference: IHO CL 10/2014 dated 24 January - Signing of the Memorandum of Understanding between the International Hydrographic Organization and the Nippon Foundation.

Dear Hydrographer,

1. The second course of the current three-year cycle of the “Geospatial Marine Analysis and Cartography” (GEOMAC) Project funded by the Nippon Foundation (NF) was successfully completed in December 2024, based on a Memorandum of Understanding (MoU) between the IHO and the NF (Reference).

2. The next course will take place at the UK Hydrographic Office (UKHO), Taunton, UK, from 14 July to 12 December 2025. The summary of the course programme is provided in Annex A. Financial support from the NF is expected for up to seven trainees. The support will cover course fees, travel to and from the respective countries, accommodation and a reasonable living allowance. Accommodation that will be provided for students will be at the sole discretion of the GEOMAC Project and cannot be changed for any reason.

3. **All Member States** which consider that their nautical cartographic production could benefit from the provision of recognized training in nautical cartography are invited to consider nominating **up to two suitable candidates** for the GEOMAC course. In accordance with the IHO CB Strategy, this course is only open to candidates from IHO Member States. The GEOMAC course is designed for individuals at the start or early in their cartographic careers. Applicants should therefore make specific reference to how their learning will be embedded into their career plan. The national authority nominating candidates should ensure that appropriate opportunities will be in place for the individual to apply the knowledge on their return for the maximum benefit of the hydrographic community.

4. It is essential that candidates are employed by a hydrographic office, a port authority or a related national agency of the nominating country. The nomination must include a statement specifying that the candidate is, or will be, involved in the production and maintenance of nautical charts and, even after the training, will continue to work in this field. A template for this statement is available in Annex B. Annex B must be signed by the national authority and submitted via the IHO Online Form System, as detailed in paragraph 7.

5. Nominated candidates **MUST** meet the following criteria:

- A very good knowledge of English, both written and spoken, with reasonable technical English. (*Level B1 CEFR or above or equivalent is recommended. Candidates' level of English will be checked and confirmed by a telephone or teleconference interview before final selection*).
- Strong background in mathematics and geography.
- A background in cartography, hydrographic surveying, geospatial sciences or related areas.
- Individual commitment for international cooperative activities such as the Nippon Foundation-GEBCO Seabed 2030 Project.

6. A Selection Panel, comprising of representatives from the IHO Secretariat and the NF, in consultation with the UKHO and the JHOD, will select the candidates for the next course. The successful candidates and their parent organizations will be notified **by mid-to-late March 2025**. Once selected, candidates cannot be changed. Selected candidates will receive detailed logistic information from the UKHO.

7. The application should be submitted via the IHO Online Form System, including the signed Application Signature Form (Annex C) and the signed nomination statement (see paragraph 5), **no later than 7 March 2025**. All information and documents which are submitted to the IHO Secretariat must be written in English. If Member States experience technical difficulties with the IHO Online Form System, please contact the IHO Secretariat individually. The IHO Online Form System can be accessed at the following address:

https://iho.formstack.com/forms/web_form_cl_04_2025 .

On behalf of the Secretary-General
Yours sincerely,

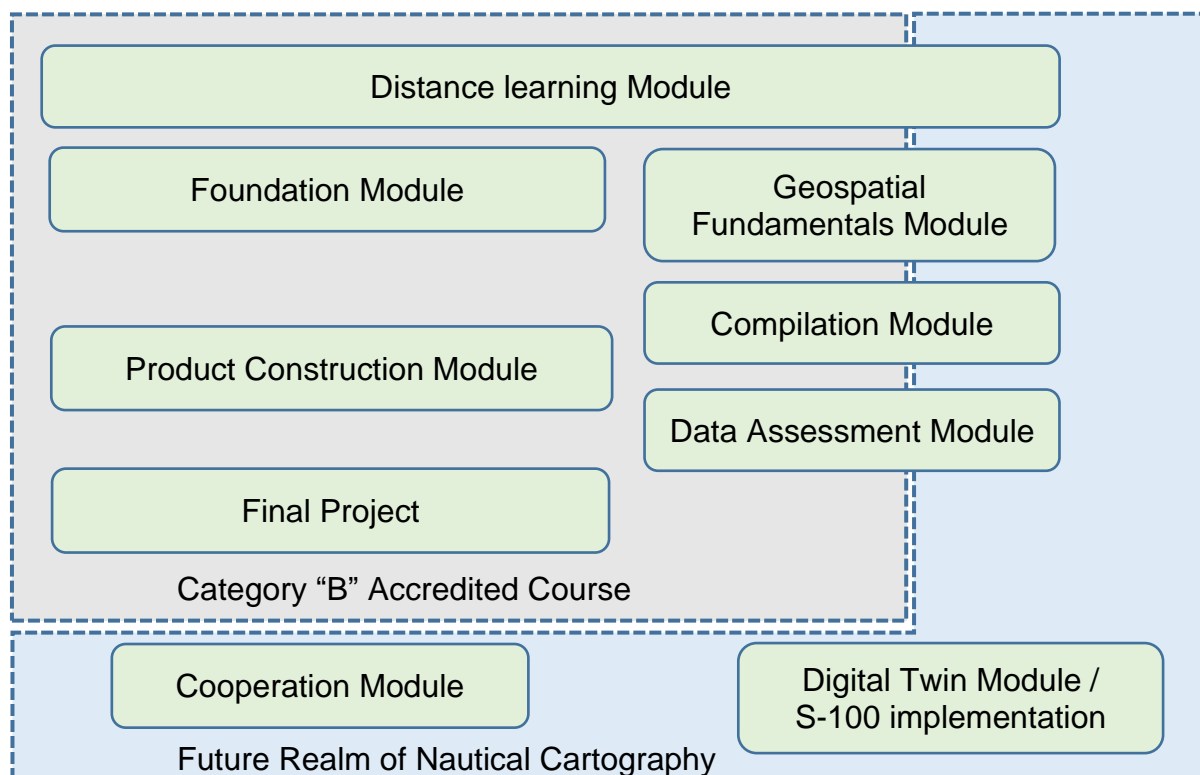


Luigi SINAPI
Director

Annexes (in English only):

- A. Summary of Course Programme
- B. Statement by the National Authority
- C. Application Signature Form

OUTLINE OF THE PROPOSED TRAINING COURSE PROGRAMME



- **Distance learning Module**
 - 1 week for UKHO course. A textbook (paper/digital) is sent to students 6 weeks prior to cover the basic elements. Assessment submitted by students and marked ahead of in person course commencement.
 - 1 year license for further E-learning material on Udemy
- **Foundation Module** – 4 weeks.
 - Cartographic basics covering the underlying details of nautical cartography.
 - Focuses on the need for Hydrographic Governance, the IHO Standards for Data collection and development of special purpose charting.
- **Geospatial Fundamentals Module** – 2 weeks.
 - Understanding the IHO S-57 Transfer Standard as well as practical aspects of S-57 Composer software and appropriate data management regarding geospatial database.
- **Compilation Module** – 3 weeks.
 - Practical module regarding compilation into a geospatial database (bathymetry element, coastline, scheduling, field exercise, meta-data) in compliance with IHO S-57, S-58 using CARIS software.
- **Product Construction Module** – 3 weeks.
 - Production of an ENC / Paper Chart (from data capturing to quality assurance and publication process)
 - Introduction of the future standard such as S-100.

- **Data Assessment Module** – 4 weeks.
 - Decision making and processing of new information using software and traditional checking processes to fulfil the responsibility of Hydrographic Offices (Notice to Mariners, new edition, maintenance).
- **Final Project** – 4 weeks.
 - Comprehensive exercise by students including course review, evaluations and lessons learned sessions.
- **Cooperation Module** – 1 week
 - Integrated data management for Maritime Spatial Data Infrastructure (MSDI) for the better ocean governance for 2 days in Taunton, UK.
 - Introduction of ocean mapping, from data collection to product development, to the trainees, and to familiarize them with the multiple users and uses for seafloor maps for 2 days in Taunton, UK.
- **Digital Twin Module** – 1 week
 - Digital twins, S-100 implementation and the link with MSDI, and their potential to be used by autonomous vessels as a 3D world view for navigation purposes bringing efficiency, safety and environmental benefits to the shipping sector for 1 week

Applications for training under the IHO - Nippon Foundation
Geospatial Marine Analysis and Cartography (GEOMAC) Project, including a FIG-IHO-ICA IBSC
Category "B" Programme, at the UKHO, Taunton, UK

STATEMENT BY THE NATIONAL AUTHORITY

Candidate's Name: _____

- 1. What makes the candidate suitable for the course?
.....
.....
.....
- 2. What are the expected employment position and responsibilities of the candidate immediately upon completion of the course?
.....
.....
.....
- 3. How many years is the candidate expected to serve as Cartographer?
.....
.....
.....

In addition, it is my commitment to make the candidate actively participate in certain international cooperative projects such as the Nippon Foundation-GEBCO Seabed 2030 Project after finishing the course as much as possible.

The Hydrographer (or appropriate authority) of _____ endorses this application and accepts the conditions that apply.

Date: _____

Signature: _____

Name: _____

Title/Position: _____

Note:
A signed copy of this document is to be submitted via IHO Online Form system in response to IHO CL 04/2025.

**Application for training under the IHO - Nippon Foundation
Geospatial Marine Analysis and Cartography (GEOMAC) Project, including a FIG-IHO-ICA IBSC
Category "B" Programme, at the UKHO, Taunton, UK**

To reach the IHO Secretariat no later than 7 March 2025

via the IHO Online Form System
https://iho.formstack.com/forms/web_form_cl_04_2025

APPLICATION SIGNATURE FORM

To answer the following questions, please use the IHO Online form mentioned above. This page is intended to be scanned and uploaded into the Online form with the handwritten signature of the candidate. (It is not necessary to put your answer below, it should be input in the Online form.)

I hereby declare that the following information which I have given in the IHO Online Form System is true and correct to the best of my knowledge and belief. In case any information given in this application proves to be false, incorrect, or concealing other important information, I shall be responsible for the consequences.

In addition, it is my commitment to actively participate in certain international cooperative projects such as the Nippon Foundation-GEBCO Seabed 2030 Project as much as possible in my circumstance with utilizing skill and knowledge beyond the Hydrographic Office.

1. Personal Information
2. Contact Information (Office address, telephone and mobile phone numbers are mandatory)
3. Curriculum Vitae (in any standard format, including a photograph)
4. Description of the candidate's experience (education, training and work experience)
5. Written and spoken ability in English language
6. The candidate's current position
7. Description of the duties and responsibilities of the candidate's current position
8. Current issues confronting the candidate and organization
9. How, in practice, the candidate could apply what is learnt during the training course to solve the above-mentioned issues
10. The candidate's short-term (within 5 years) career plan
11. The candidate's long-term vision
12. Use of the e-learning material for the Distance learning Module
13. How would the candidate contribute and benefit as part of the alumni network

Date:

Candidate's Name:

Candidate's Signature: