

***THE BEGINNING OF THE NF
FUNDED PROJECTS
and
THE IMPORTANCE OF THE IHO
CB PROGRAMME***

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**IHO – NIPPON FOUNDATION
ALUMNI WORKSHOP
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London, UK**



Beginning of the NF funded projects



Requirements for realisation an international CB project

- **Initial Preparation for the Course** (An original idea or initiative of Dr Hideo Nishida from Japan)
- **Fund from the sponsor institution** (Nippon Foundation)
- **Coordinator Organisation** (IHO)
- **Training Team** (UKHO)
- **Students** (IHO Member States)
- **Official Framework** (MoU between the IHO and Nippon Foundation and Arrangement between the IHO and the UKHO)



Dr Hideo NISHIDA
Former Chief Hydrographer of Japan

*The first MOU was signed among the IHO and the JHA (on behalf of the JHOD) on 26 September 2008 which was the official frame of the project.



JHOD/JHA



IHO



IHO CL77/2008

Announced the conclusion a Memorandum of Understanding (MoU) with the Japan Hydrographic Association (JHA) acting on behalf of the Japan Hydrographic and Oceanographic Department (JHOD) for the implementation of a Capacity Building Project aiming at developing and promoting human capacity building of technical personnel in developing countries, particularly in Asia and its adjacent regions in nautical cartography.

The main points of the MoU

- The NF will financially support the Project. Part of the fund provided for the Project, will cover the expenses for the secondment of an Officer from the JHOD to the IHO
- The implementation and management of the Project will be conducted by the IHO in consultation with the JHA
- The JHA will inform the IHO at the beginning of each subsequent year on the level of funding
- The MoU will be valid for the period 2008-2013 provided that funds will be available and may be extended
- The JHA will inform the IHO that they anticipate the annual level of funding
- The JHA has selected the UKHO as the training provider.

The annual implementation process/ cycle of the NF course

1. Coordination Board Meeting (IHO, UKHO, Japan-JHOD/JHA) (in January)
2. Call for nominations of candidates for the course by IHO Circular Letter (in January)
3. Selection Panel Meeting (IHO, UKHO, Japan-JHOD/JHA)
4. Final Selection Meeting (IHO and Nippon Foundation) and Announcement of the Selected Students.
5. Transfer of the course fund by the IHO to the UKHO (in August)
6. Conduct of the course by the UKHO (from September to December)
7. Liaison / Motivation Visit by the IHO Director (in October)
8. Report of the course by the UKHO (end of December/beginning of January)

***The first course on *Hydrographic Data Processing and Marine Cartography* was implemented in 2009** from 7 September to 18 December 2009 at the UK Hydrographic Office and the course was consisted of three modules (*Marine Cartography, Hydrographic Data Processing and Electronic Navigational Chart*)

*The IHO were astonished by the outstanding level of applications for the first course which were 49 applications received from 41 countries for the seats of six students.

***From the beginning today this course has been remained always popular and attracted high number of applications each year.**

That is the indication of the high quality of the course.



Class of 2009 – The First NF Course

Coordination Board Meeting-2012



Coordination Board Meeting-2013



Visit to Nippon Foundation-2013



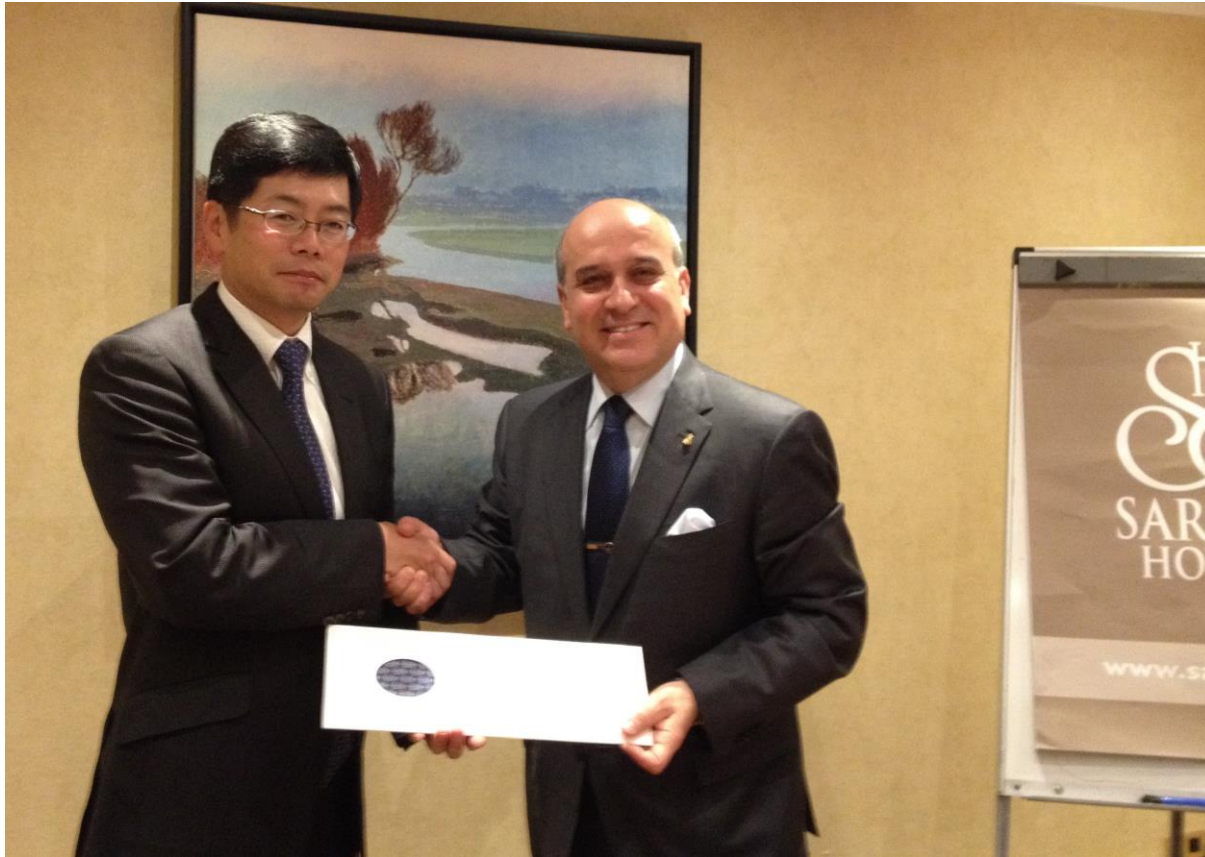
**Call for nominations of candidates for the course
by IHO Circular Letter**

**IHO - NIPPON FOUNDATION CHART PROJECT
Call for Applications for 11th Course in Marine Cartography and
Data Assessment (FIG-IHO-ICA Category "B")
UKHO, Taunton, UK, 2 September – 13 December 2019**

Selection Panel Meeting



Final Selection Meeting and The Announcement of the Selected Students



Announcement of the Selected Students by IHO Circular Letter

**IHO - NIPPON FOUNDATION CHART PROJECT –
Successful Nomination of Candidates for the
11th Course
(2 September – 13 December 2019)**



Notifications Letters

Transfer of the course fund by the IHO to the UKHO



Conduct of the course by the UKHO



Conduct of the course by the UKHO

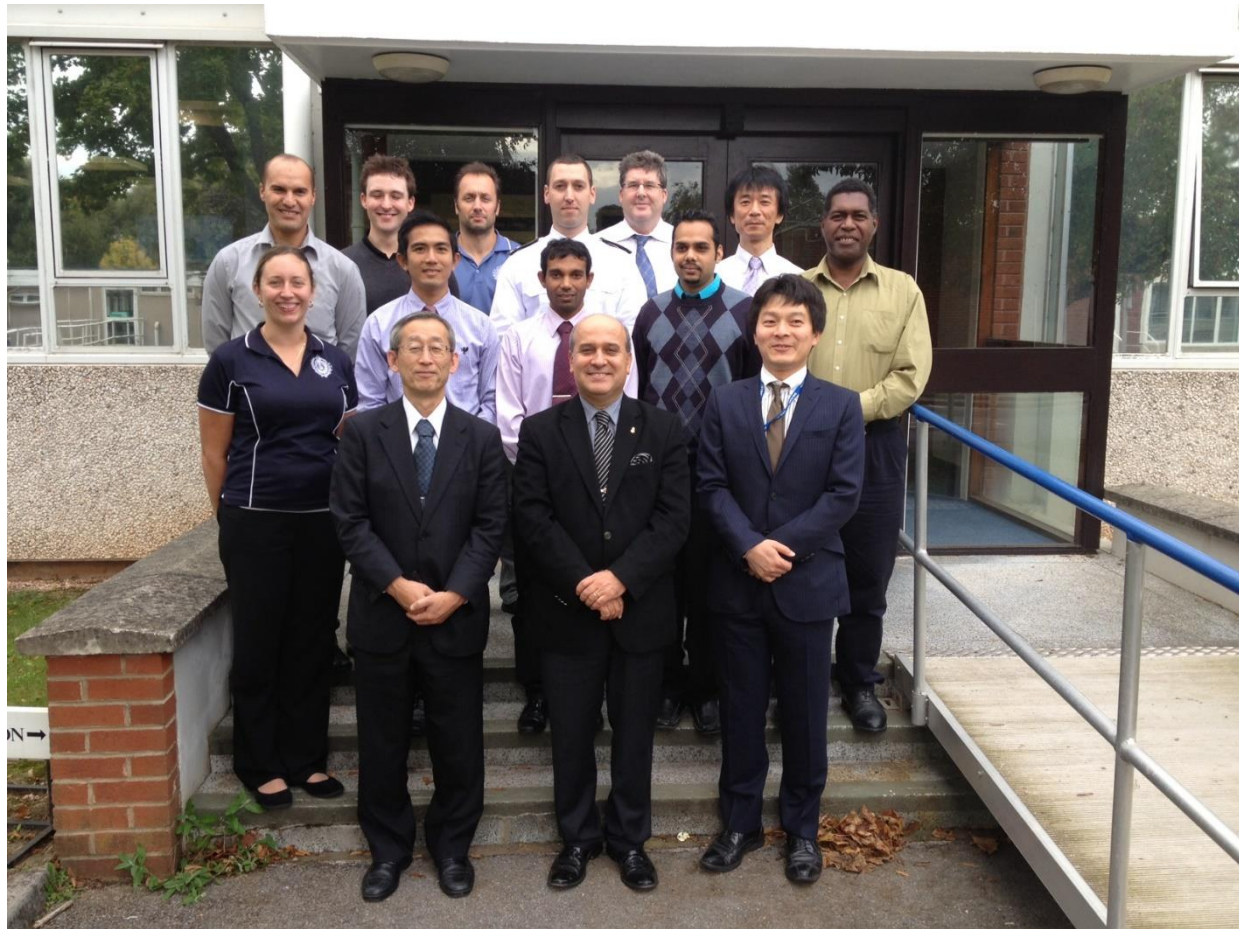


Conduct of the course by the UKHO



Class of 2012

Liaison / Motivation Visit by the IHO Director



Class of 2013

Liaison / Motivation Visit by the IHO Director



Class of 2014

Liaison / Motivation Visit by the IHO Director



Class of 2015

Liaison / Motivation Visit by the IHO Director



Class of 2016

Liaison / Motivation Visit by the IHO Director



Class of 2017

Liaison / Motivation Visit by the IHO Director



Class of 2018

Liaison / Motivation Visit by the IHO Director



Class of 2019

Report of the course by the UKHO



CAT – B course

The course was recognised at the Category B level by the FIG-IHO-ICA International Board of Standards of Competence for Hydrographic Surveyors and Nautical Cartographers (IBCS)

For the first five years from 2009 to 2013, the course was successfully completed a three way collaboration between the Nippon Foundation, the International Hydrographic Bureau and Japan Hydrographic Association .

In 2013 the UKHO's CAT B nautical cartography course required re-certification against a revised S-8 standard.

So, the Nippon Foundation and IHO took the opportunity to update the course content and amended the name to what is known as the IHO-NF **CHART** (Cartography, Hydrography and Related Training) Project.

A new MoU was signed in 18 December 2013 between the IHO and the NF.

The CHART course consisted of five modules (Foundation Module, Compilation Module, Product Construction Module, Data Assessment Module, and Maintenance Module) and successfully conducted from 2014 to 2019.

Considering the fast technology development in hydrography and new requirements for the nautical cartographers the course has been re-named in 2020 by the IHO and the NF as “**Geospatial Marine Analysis and Cartography**” (**GEOMAC**) aiming a more advanced education project focusing on leading-edge technologies.

GEOMAC consist of eight modules including seabed data management supported by Artificial Intelligence, and Marine Spatial Data Infrastructure (MSDI).

The Selection of the Suitable Students

*Based on the Application forms, the selection of the students has been made by the Selection Panel comprised of the representatives from the (IHO, UKHO, Japan-JHOD/JHA) and finally endorsed by the NF.

*It is essential that candidates should be 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 - paper and ENC- and once the training has been successfully completed, will continue to work in this field.

Nominated candidates MUST meet the following criteria

- *A very good standard of English, both written and spoken, with reasonable technical English. (Candidate's English skill will be checked and confirmed by a telephone or teleconference interview before final selection).
- *A high standard in mathematics and geography.
- *Background in cartography or hydrographic surveying.

***Nominated candidates MUST
meet the following criteria
(REVISED)***

- A very good standard of English, both written and spoken, with reasonable technical English. (*Candidates' level of English will be checked and confirmed by a telephone or teleconference interview before final selection*).
- A high standard in mathematics and geography.
- A background in cartography, hydrographic surveying, **geospatial sciences** or related areas.
- **Individual commitment for international cooperative activities such as Seabed 2030.**

Importance of the NF Fund and Grant application process by the IHO

*Every three year cycle, the IHO submitted a proposal for a Nippon Foundation Grant intended to enhance human relations, capacity building, and awareness of the need to survey and map the world's seas, oceans and coastal waters for the mutual benefit of mankind and the preservation of the planet, and which is also in accordance with the implementation of the Memorandum of Understanding (MoU) between the IHO and Nippon Foundation.

*The purpose of the proposed project is to significantly improve the quality and extent of nautical chart coverage of the world's navigable waters and to establish and strengthen the international network of nautical cartographers by providing training in nautical cartography for technical personnel mainly from developing countries at the United Kingdom Hydrographic Office, one of the most authoritative hydrographic offices in the world in relation to nautical charting.

The Role of the POJ

This important task has been assumed by the POJs at the IHO Secretariat.

Special thanks to Mr Shigeru Nakabayashi, Satoshi Yamaho, Kentaro Keneda, Kazufumi Matsumoto for their outstanding contributions to the implementation of the NF course.

Japan CB-CHART-GEOMAC Course is A success story

*This generous contribution from the Nippon Foundation has been a significant asset for the successful implementation of the IHO capacity building work programme.

*This fourteen-year successful programme, kindly funded by the Nippon Foundation has been warmly welcomed by the IHO Member States.

*We should recognize that this Project is one of the great examples of cooperation and internationally well recognized in cartographic training domain.

The Importance of the IHO Capacity Building Program



The IHO has defined Capacity Building as:

*The process by which the Organization assesses the status of current arrangements and assists States to achieve sustainable development and improvement in their ability to meet hydrographic, cartographic and maritime safety obligations with particular reference to UNCLOS, SOLAS and other international instruments.

Capacity Building Strategy

Awareness

Raise priority of Hydrography

Assessment

Identify and prioritize problems

Analysis

Identify Projects based on national/regional priorities

Action

Implementation of Activities. Follow-up

Capacity Building Sub Committee

Objectives:

- * continuously assess hydrographic surveying, nautical charting and nautical information status in nations and regions where hydrography is developing
- * establish and maintain close relationships with national agencies and international organizations, to identify funding and technical assistance
- * cooperate with Regional Hydrographic Commissions

CB Work programme

- Needs identified in general by the RHCs
- Considered and agreed by the CBSC
- Endorsed by the IRCC
- Become the IHO CBWP
- Annual cycle

Phases of Hydrographic Capacity Building

Preliminary

Raise awareness

Phase One

Collection and circulation of nautical information needed to maintain existing charts and publications

Phase Two

Capacity to conduct hydrographic surveys, data gathering and processing

Phase Three

Production of charts and publications

Delivering CB programmes

- High level visits
- Technical visits
- Short courses
- Seminars, Workshops
- CAT A and CAT B courses
- Technical assistance
- Involvement in comprehensive projects

IHO CAPACITY BUILDING FUND

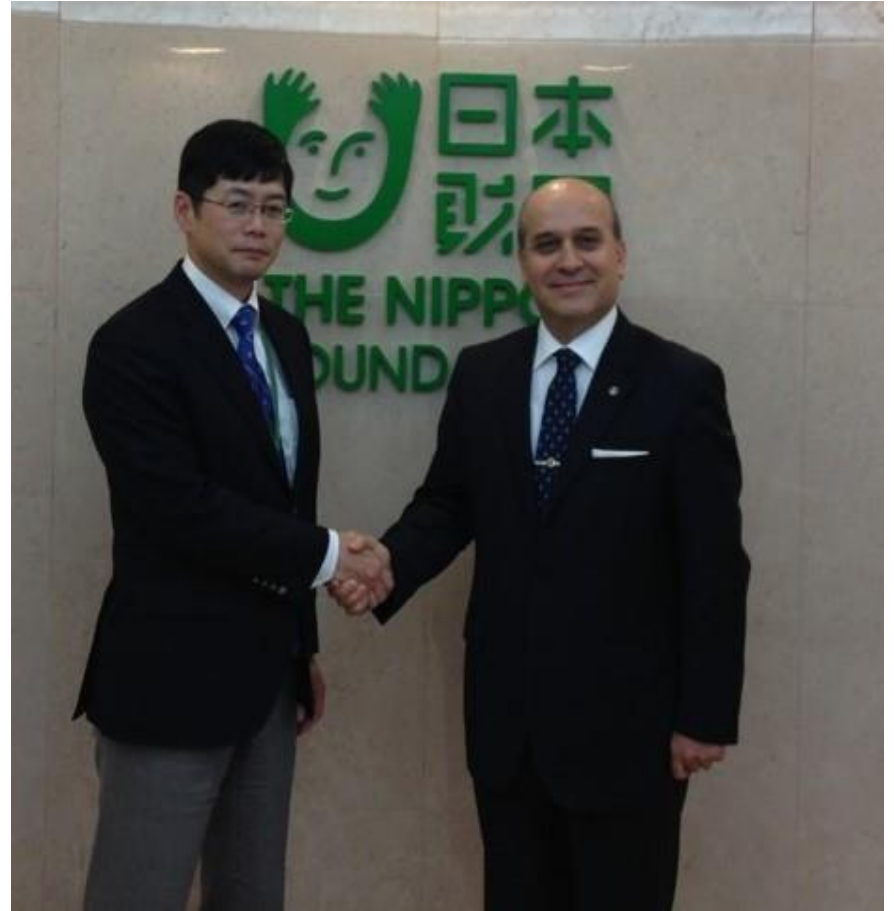
Fund supports:

- Technical Assistance
 - Training and Education
 - Financial Assistance
 - Start-up Projects
-
- Proposals submitted via Regional Hydrographic Commission

Funding Agencies

- IHO CB Fund (small, no funding agency)
- **Nippon Foundation (Japan)**
- Republic of Korea provision for CB
- Bilateral support from Member States
- New Funds possibly available in the future
- Industry involvement to be extended

Special Thanks to Nippon Foundation





Thank you



***Mustafa IPTES
Rear Admiral (R)
Former IHO Director***

