



# Informational Briefing: Nippon Foundation / GEBCO training program hosted at the University of New Hampshire

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# Capacity-building initiative: postgraduate training program



## GEBCO Postgraduate Certificate in Ocean Bathymetry

*Designed to train a new generation of scientists and  
hydrographers in ocean mapping*



is funded by:  
**The Nippon Foundation of Japan**

and hosted by:  
**The Center for Coastal and Ocean Mapping /  
Joint Hydrographic Center; University of New Hampshire**



# Nippon Foundation / GEBCO training program



- The academic portion of the program consists of
  - core and elective courses
  - class projects / software training
  - hydrographic field course
- Working visit to another research organization and a cruise over the summer



**NOAA** NATIONAL GEOPHYSICAL  
DATA CENTER





# Nippon Foundation / GEBCO Training program



## Qualifications attainable:

- GEBCO Postgraduate certificate in Ocean Bathymetry
- UNH Graduate Certificate in Ocean Mapping
- FIG/IHO/ICA Cat A in hydrography (theory)





# Nippon Foundation / GEBCO Training program

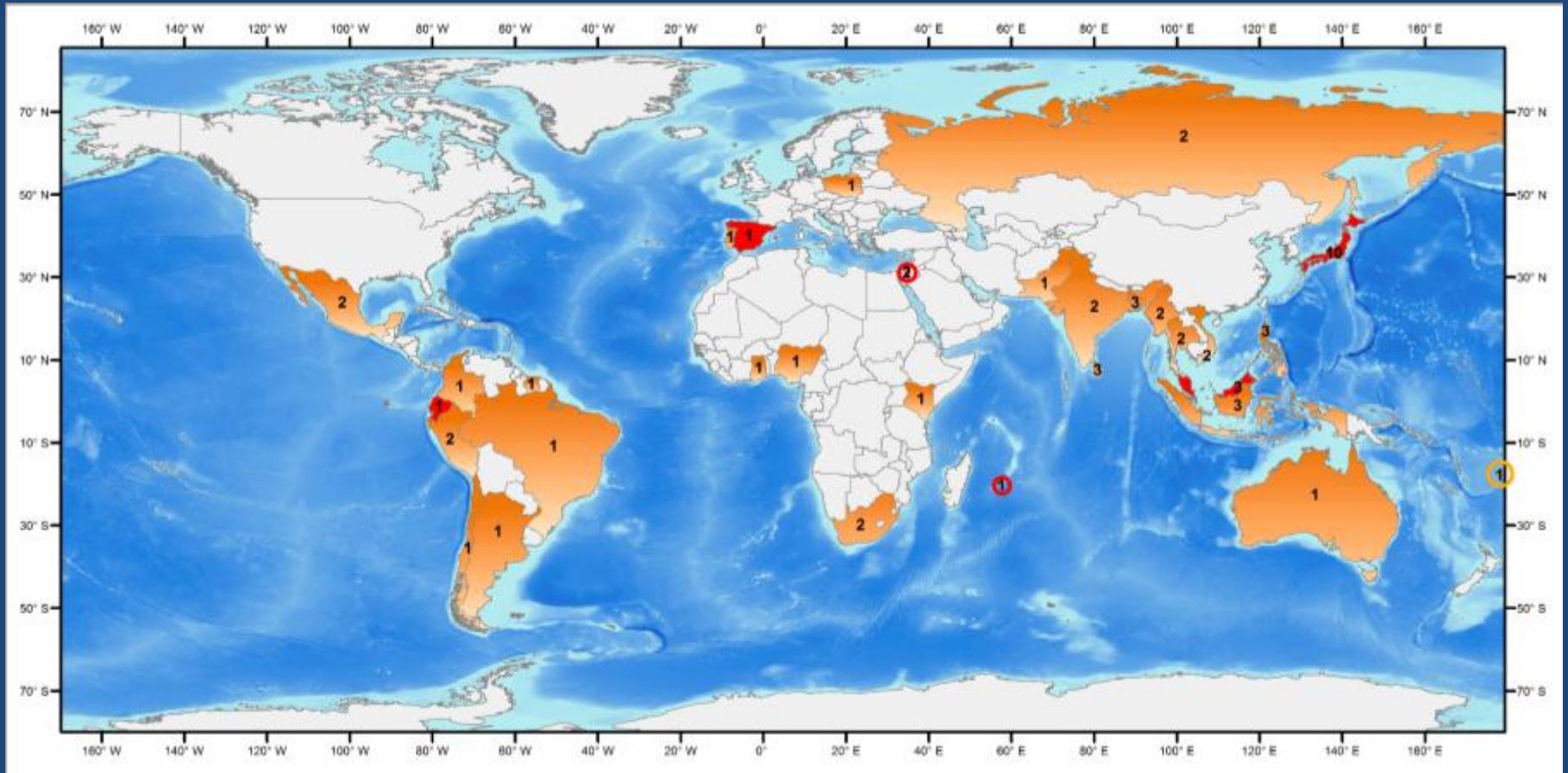


## Why has this program been so successful:

- Strong leader in Dave Monahan  
→ passionate advocate for ocean mapping
- Lessons learnt through experience
- Host organization
- Ongoing scholar development



# Success story





# Lessons learnt - Candidate selection

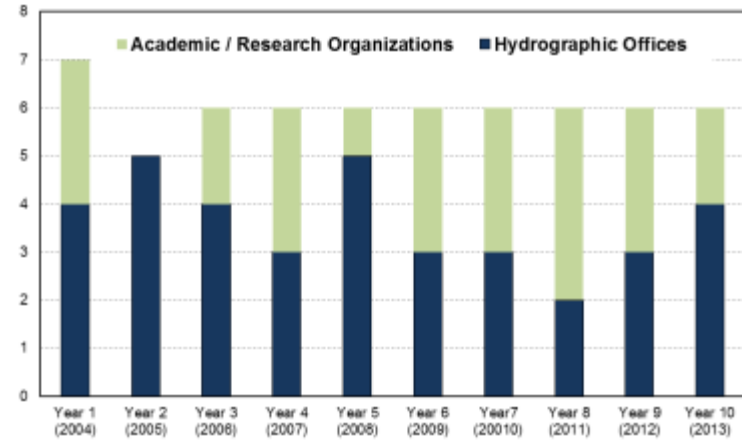
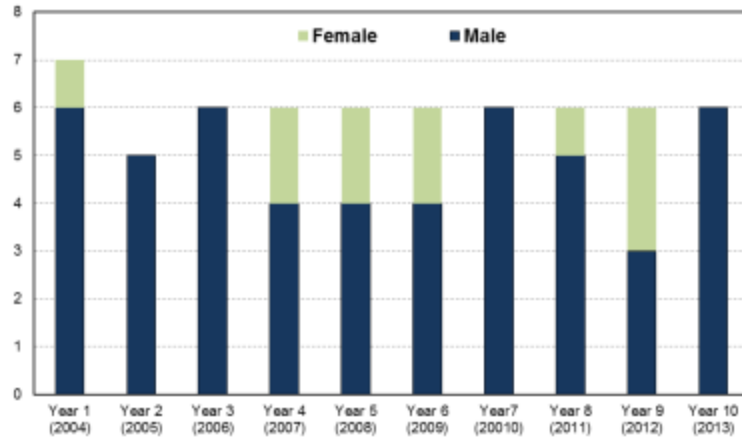


- Through written applications that include a personal statement of interest
- Face to face interviews (Skype, Telephone)
- Interaction with home organization with
  - support for candidate and, more importantly
  - plan for scholar on his/her return





# Candidate selection



## Objective:

Balanced mix of gender, background and level of experience

Each class composed of hydrographers and research scientists (from universities and research organizations)





# CCOM/JHC as a host



- Introduced to state of the art knowledge and cutting-edge developments in ocean mapping in a non-traditional establishment  
→ fosters new way of approaching issues
- Part of larger graduate community
- Scholars develop an international network of contacts that are leaders in their respective fields



# Education vs. training



- Scholars successful careers
- Personal development paths  
→ further education
- Cascading education by alumni  
→ MMU MSc course  
→ Chittagong University  
→ In-house training in home organization



# Ongoing Scholar Development



- Scholars become included into larger GEBCO community
  - Active scholars in GEBCO sub-committees
  - Presence and participation in all GEBCO meetings
  - Involvement in GEBCO regional projects
- Scholars now representing GEBCO at other international meetings



# Personal experience



## What did I learn?

- I am a geologist and so a lot
  - basic practical skills
  - principals of ocean mapping
  - introduction to cutting-edge developments, and
  - real-world experience
- Gave me the framework/language to understand the scope of ocean mapping

**Built an international network of contacts –  
which comes with new approaches and skills**





## Personal Development

- A world-class education
- Meet and work with other GEBCO members through annual meetings my involvement in GEBCO regional projects
- Got to attend a number of RHC and IHB meetings

**Now a program alumni will be Project Director**

**→ Ongoing handover with Dave Monahan**





Thank you

Any questions?





# What is GEBCO?



## The General Bathymetric Chart of the Oceans (GEBCO):

- Aims to provide the most authoritative, publicly-available bathymetric datasets for the world's oceans
- Maintains and makes available a gazetteer of undersea feature names

GEBCO operates under the joint auspices of the  
International Hydrographic Organization (IHO)  
and

Intergovernmental Oceanographic Commission (IOC) of UNESCO

[www.gebco.net](http://www.gebco.net)



# GEBCO's organisational structure



GEBCO consists of an international group of experts led by a **Guiding Committee** consisting of 5 IHO-appointed members; 5 IOC-appointed members; Sub-committee Chairs and the Director of the IHO-DCDB

It has 3 sub-committees and working groups:

- Sub-Committee on Undersea Feature Names (SCUFN)
- Technical Sub-Committee on Ocean Mapping (TSCOM)
- Sub-Committee on Regional Undersea Mapping (SCRUM)
- Working groups on Outreach, Metadata and the IHO-IOC GEBCO Cook Book

[www.gebco.net/about\\_us/committees\\_and\\_groups/](http://www.gebco.net/about_us/committees_and_groups/)



# GEBCO's products



## **FREELY-AVAILABLE bathymetric data sets and products:**

- Global gridded bathymetric data sets
- Global set of digital bathymetric contours
- GEBCO Gazetteer of Undersea Feature Names
- GEBCO Digital Atlas
- GEBCO world map
- Web Map Service (WMS)
- IHO-IOC GEBCO Cook Book

[www.gebco.net/data\\_and\\_products/](http://www.gebco.net/data_and_products/)

