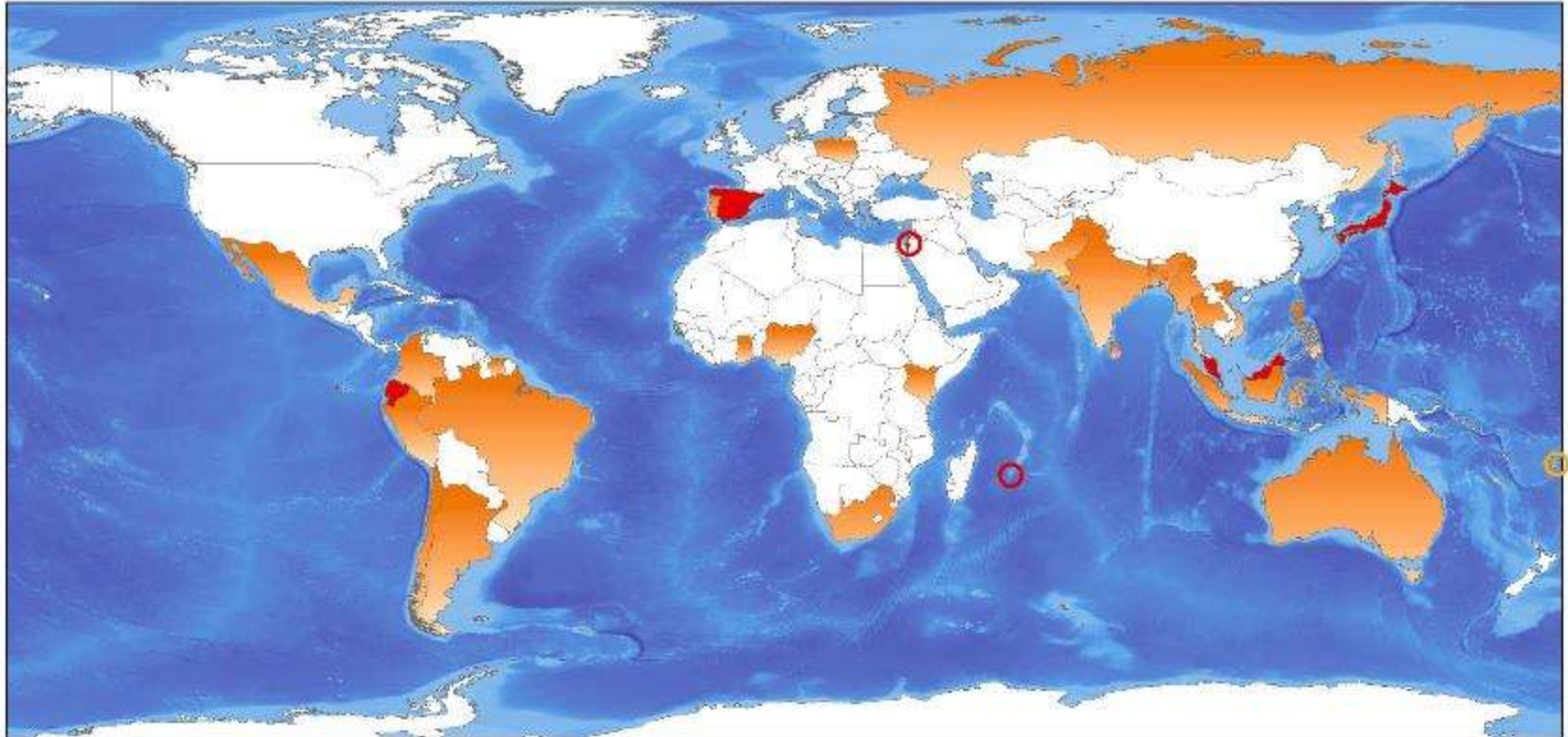




Nippon Foundation / GEBCO Postgraduate Certificate in Ocean Bathymetry training program

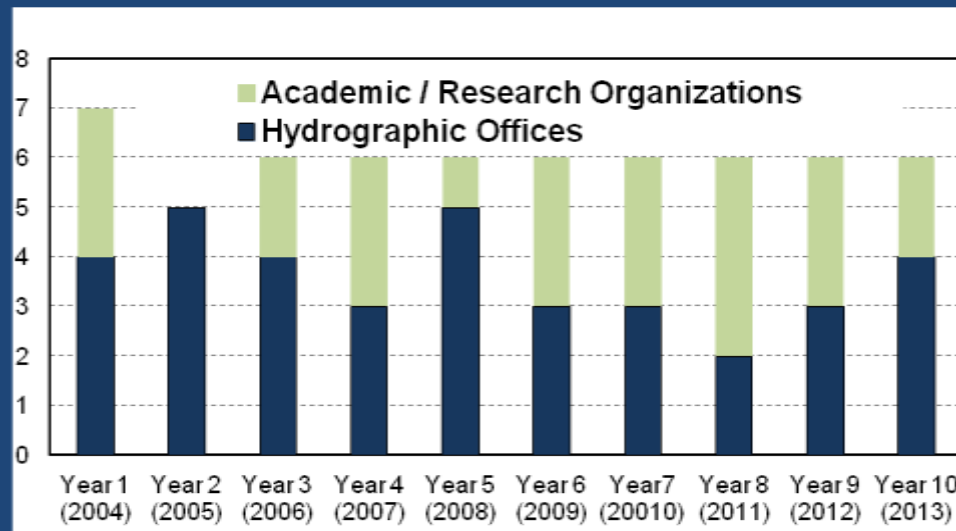
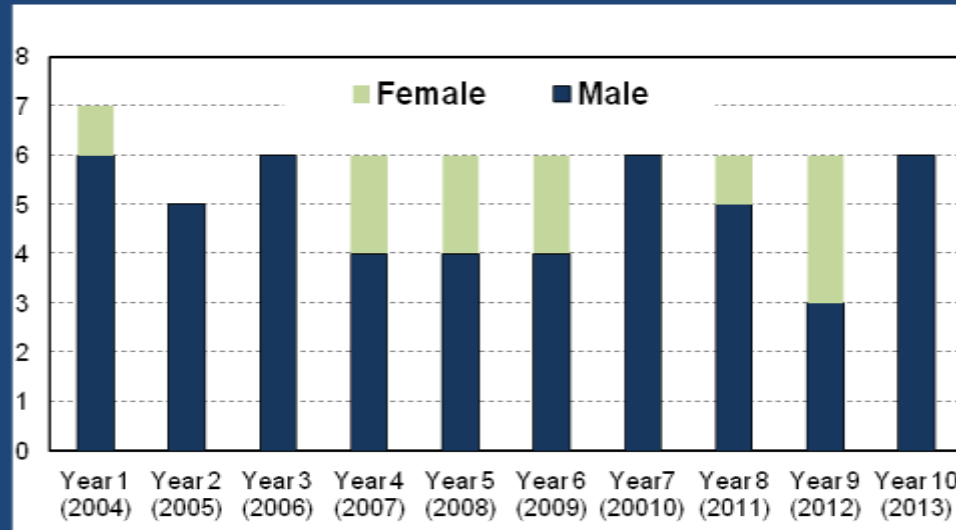
Rochelle Wigley

Background



60 students from 31 countries (3 new)

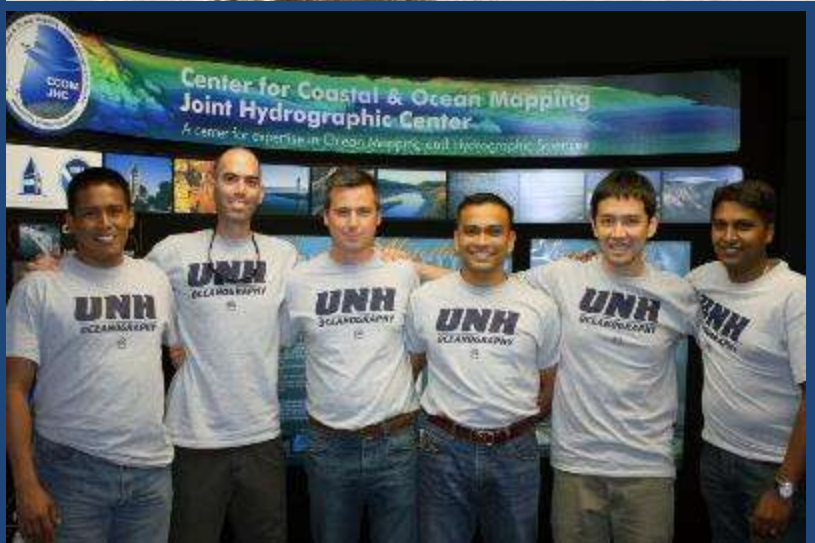
Alumni statistics



Current Class



Daishi Horiuchi	Gustavo Crespo	Ramli Mohd	Tomer Ketter	Hemanaden (Ravi) Runghen	Nilton Sanchez
Japan	Spain	Malaysia	Israel	Mauritius	Ecuador
JHOD -Coast Guard	Instituto Hidrográfico de la Marina (Spanish Hydrographic Office)	National Hydrographic Centre, Bandar Armada Putra	Israel Oceanographic & Limnological Research (IOLR)	Specialized Unit on Ocean Matters c/o Mauritius Oceanography Institute	Ecuadorian Navy
Research Officer	Hydrographer	Staff Officer 2 Oceanography (Meteorology)	Research Assistant & MSc Student	Associate Research Scientist	Station Chief of Galapagos Marine Research Station



Year 10 Course Material



Fall Semester
(August-December)

- Fundamentals of Ocean Mapping I
- Applied Tools in Ocean Mapping
- Geological Oceanography
- Elective (Math for Mapping)

J-term

- NGDC
- Software training (Fledermaus and QINSy)

Spring Semester
(January-May)

- Fundamentals of Ocean Mapping II
- Bathymetric Spatial Analysis
- Geodesy and Positioning for Ocean Mapping
- Seamanship and Marine Weather
- Electives (LOS, Coastal Remote Sensing)

Summer
(June-August)

- Students will take the Hydrographic Field Course.

Lab visit and Cruise

Summer Hydro 2013





CCOM/JHC SUMMER HYDRO 2013



Area: Nearshore area of Ryb, New Hampshire, USA
Date: May 2013 - July 2013

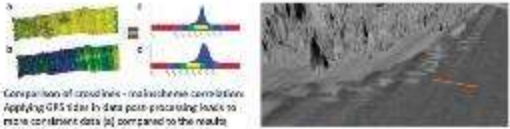
Principal Investigators: A. Zimmerman (USA), S. Okino (The Netherlands), B. Smith (USA), E. Terry (USA)

Senior Scientists: E. Chroscicka (Poland), T. Raitanen (Japan), H. Hira (Myanmar), H. Fu (China), J. Wankowicz (USA), X. Yu (China), P. Stumpf (USA), A. Foster (USA), D. Swenson (USA), E. Matisoff (USA), F. Paz (Spain), D. Wu (China)

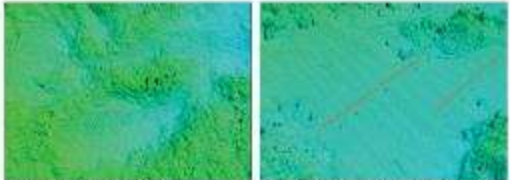
Equipment: MBES EM 3000 Multibeam Echo Sounder, RTI Beam Station, Trimble STC, Ray and Arblade POS, MC Aquatic SVP, SVP, LO Seacat, CTD



Bathymetric mosaic (2.5 m resolution) draped over the bathymetry surface (2.5 m resolution, 30 lines width, image visible). NOAA NED 15,000 used as a background. Resolution of image: 100m x 100m.

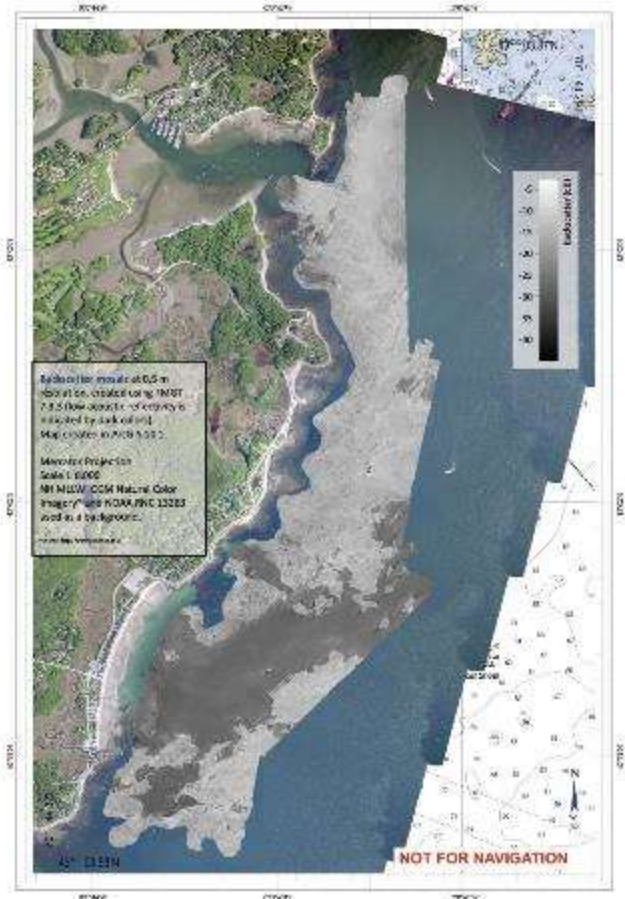
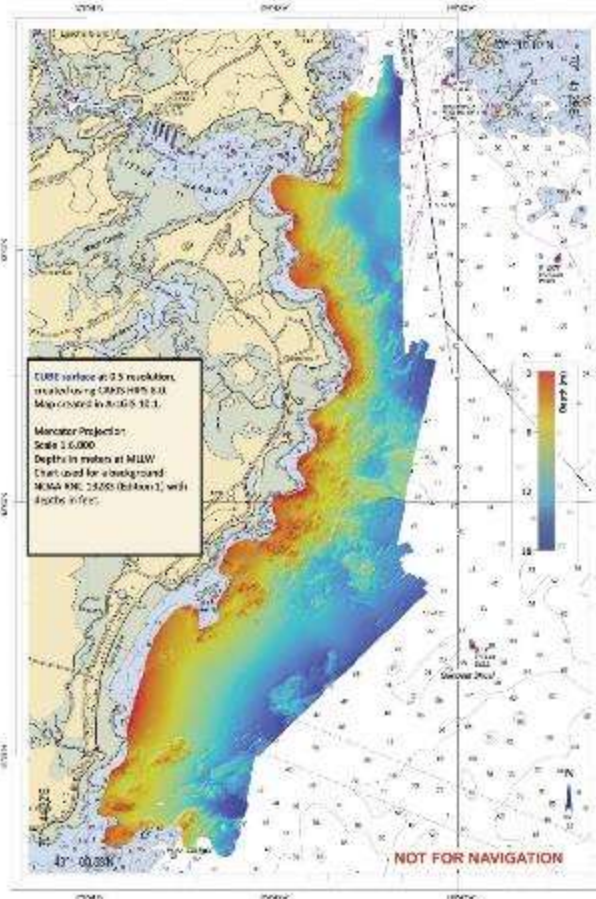


Comparison of cross-line and inline correlation. Applying GPS data in data post-processing leads to more consistent data (a) compared to the results using a line area (b). The histogram of the differences for the first case is more concentrated around 0 (a) than in the second case (b), suggesting better horizontal correlation. Resolution of image: 100m x 100m.



Sand waves (2) on the central map. Resolution of image: 100m x 100m.

Lobster traps (3) on the central map. Resolution of image: 100m x 100m.



Year 10 Lab Visits



	Lab Visit 1	Lab Visit 2
Tomer Ketter	NOAA ship Rainier (Alaska)	CCOM (NOAA group)
Daishi Horiuchi	AWI (Germany) Laura Jensen	R/V Atlantis – ECS cruise A. Armstong / B. Calder
Ravi Runghen	Lamont (USA) Vicki Ferrini	NGDC Barry Eakins
Ramli Mohd	Oceanwise (UK) J. Pepper / C. Levey	
Nilton Sanchez	Cruise with Nick Forfinski (Alpena, MI)	
Gustavo Crespo	Geoplus (Amsterdam)	E/V Nautilus

Budget



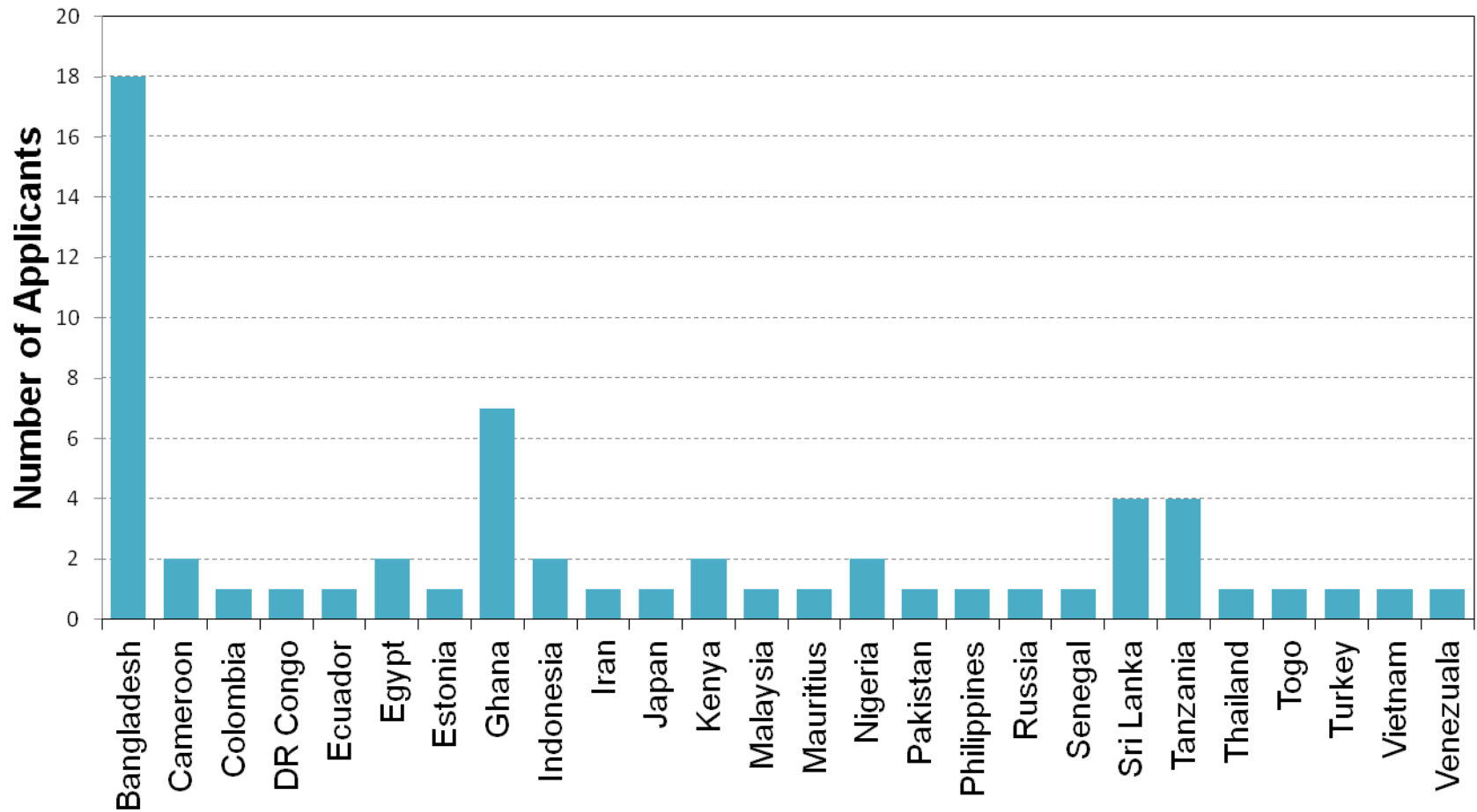
Year 9:

Training: \$ 514,255 \$ 6,585.60
remaining

Travel: \$ 55,745 \$ 4,831.50 remaining

Total: \$ 570, 000 \$ 11,417.10

Selection Process (Year 11)



60 applicants from 26 countries (10 new countries)

M1	Have a four year degree in an applicable field	1
		2
M2	Sufficient capability in English	3
M3	Desire to build capacity in their home country	1
		5
M4	Have a strong probability of returning home and working in Ocean Mapping	7
M5	Have an involvement in and a passion for the ocean	7
M6	Have strong written support from home organization	
M7	Multiple applicants from one country	1
	1 withdrawal and 1 visa issue	

What do we do:

- Assess as per M1-M7
Left 12 candidates for interviews
- Telephone / Skype interviews
(look for passion for ocean/ desire and ability to build capacity/ work in deep ocean)
- Shortlist of 11 to Nippon Foundation

GEBCO Year 11



Hirokazu Kurita (Japan) – Physics background

Jaya Roperez Philippines – Geodesy/Hydrography

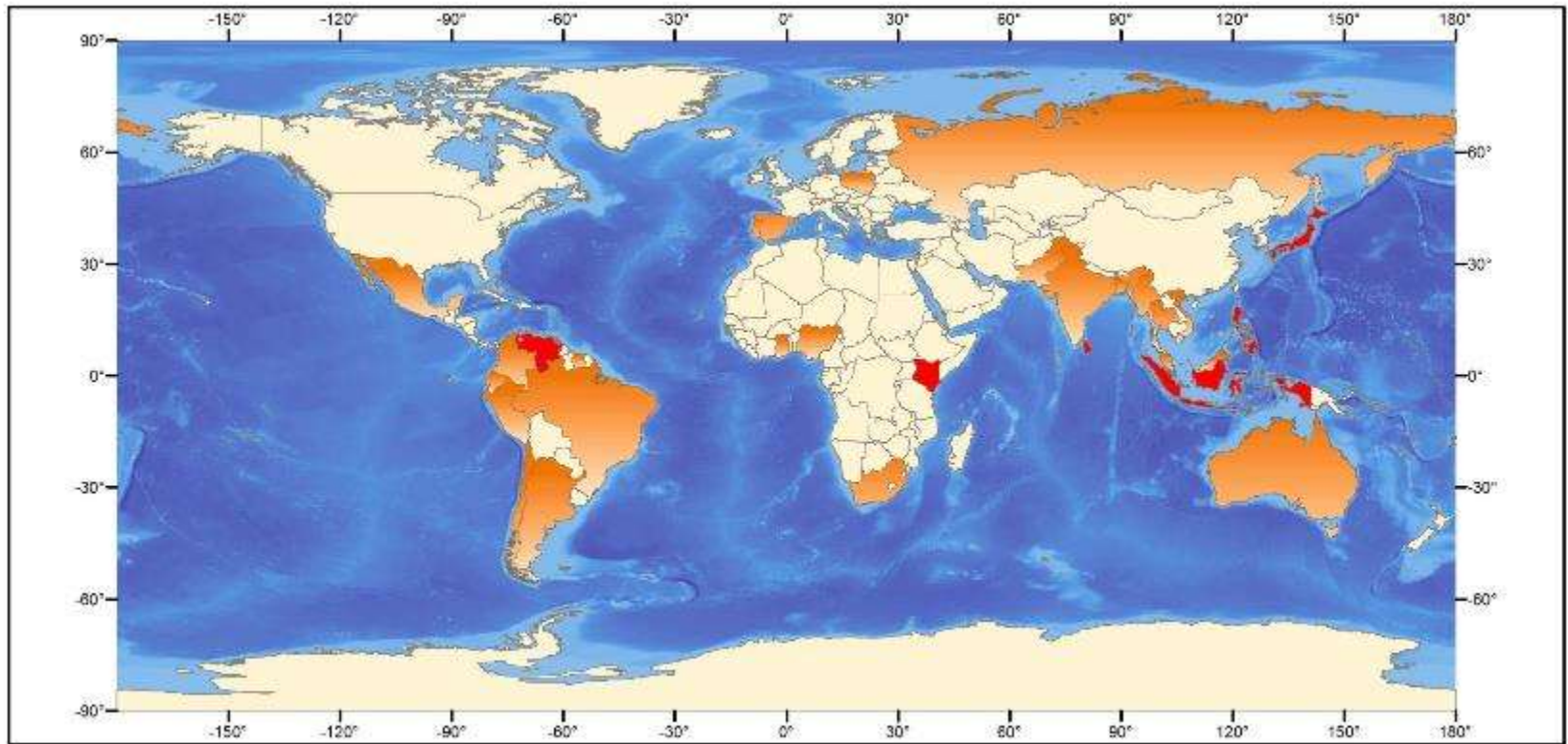
Maxlimer Vallée Anziani (Venezuela) - Geohazards

Amon Kimeli (Kenya) - Geologist

Nilupa Samarakoon (Sri Lanka) - Hydrographer

Indra Prasetyawan (Indonesia) - Oceanographer

GEBCO Year 11



Into the future



18th May Meeting with Mr Unno:

- suggested that a different selected alumni should become part of the next class selection process (to promote inclusion into GEBCO community and further build links)
- Noted that passion of candidate most important (not home country, background etc.)
- indicated that as we have 3rd candidate from NARA we cannot offer them for the next 2-3 years - so thinking continuity
- Would like us to issue 2 certificate – 1 completion and 1 introduction to community

Thank you

