

The Postgraduate Certificate in Ocean Bathymetry

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



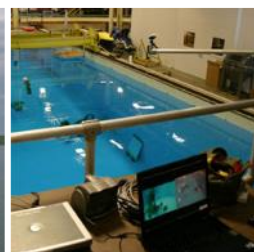
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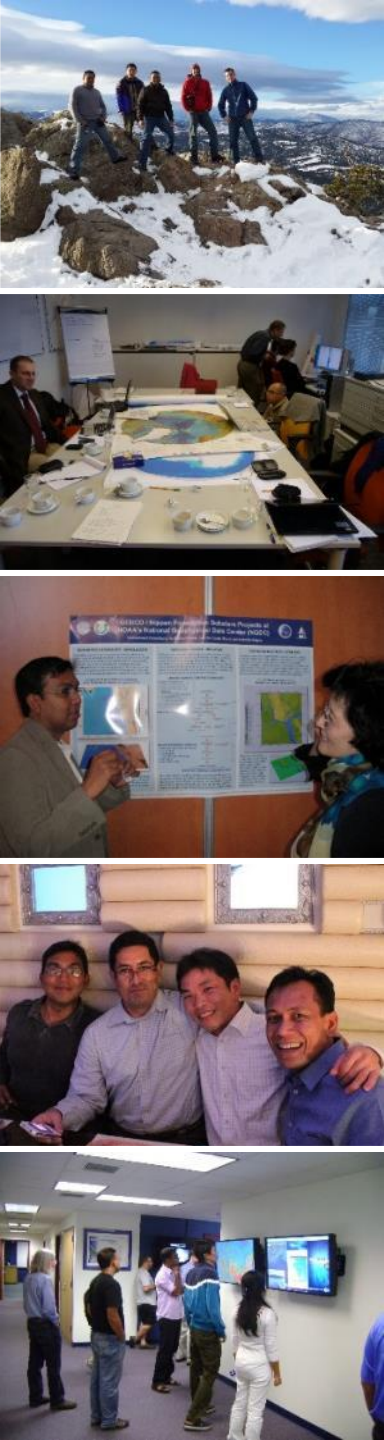
The Nippon Foundation of Japan

www.nippon-foundation.or.jp/en/

and taught at:

**The Center for Coastal and Ocean Mapping /
Joint Hydrographic Center, University of New Hampshire, USA**





The aim of this program is to build a **global network of young ocean mappers**, who can use the skills, knowledge and network of contacts they acquired during their training to build capacity within their own country and to keep the Nippon Foundation / GEBCO community growing.

This will ensure that a new generation of ocean mappers will continue to build on our knowledge of the world's oceans.



Postgraduate Certificate in Ocean Bathymetry Training Program content

Fall Semester
(August-December)

- Integrated Seabed Mapping Systems (OM I)
- Applied Tools in Ocean Mapping
- Math for Mapping etc

J-term

- Physical Oceanography for Hydrographers
- Software training

Spring Semester
(January-May)

- Fundamentals of Ocean Mapping II
- Bathymetric Spatial Analysis
- Geodesy & Positioning for Ocean Mapping
- Seamanship and Marine Weather
- Geological Oceanography for Hydrographers

Summer
(June-August)

- Software training
- Hydrographic Field Course
- Visit NCEI in Boulder, Co
- NOAA Chart Adequacy Workshop

Lab Visit & Cruise

- Working visit to a research organization and / or a cruise selected by student and their home organization in a field of mutual interest.

Nippon Foundation / GEBCO Training program

- Students **MUST** also undertake a working visit to another research organization and a research cruise over the summer (selected by student and home organization in field of interest)
- The lab is included to round out the students training, to help them build their new make new contacts and to deepen some of their newly-acquired theoretical knowledge.
- This training includes familiarization with the programs the visited organization is engaged in, as well as some directed work under supervision.
- **BUILDS ALUMNI NETWORK**



Qualifications attainable

- GEBCO Postgraduate certificate in Ocean Bathymetry
- UNH Graduate Certificate in Ocean Mapping
- FIG/IHO/ICA Category A hydrography (theory)
Certification received: 31 March 2018

Networks they develop are most significant

- amongst GEBCO scholars and CCOM graduate students as well as other alumni of the training program
- through interactions with academic, scientific and business leaders at CCOM
- through lab visits, internships, cruises and other GEBCO meetings and projects



NF support for training program (Yr 15 & 16)

TRAINING PROGRAM	
Nippon Foundation / GEBCO training program 2018/2019 : Year 15	\$ 649,705
Nippon Foundation / GEBCO training program 2019/2020 : Year 16	\$ 675,215
Alumni travel for Capacity-building and Networking 2018/2019	\$ 22,000
Alumni travel for Capacity-building and Networking 2019/2020	\$ 22,000
TOTAL	US\$1,368,920
OTHER FUNDS AT UNH	
Ambassador Fund (2015-2017)	\$ 117,369.19
Remaining Training program funds (Yr 1-14)	\$ 105,236.55
Indian Ocean Project	\$ 5,591.32
TOTAL	** US\$ 228,197.06

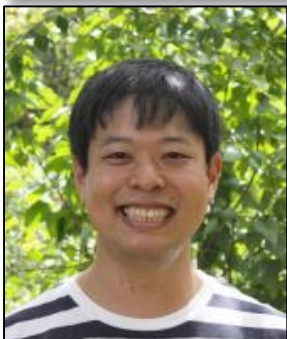
***Alumni travel funds** to be utilized for travel that will benefit Alumni capacity-building and will assist with their integration into larger internal working groups. This travel will also provide Alumni the opportunity to talk about the skilled and diverse network they represent.*

*** Funds likely to be returned to NF – under discussion*

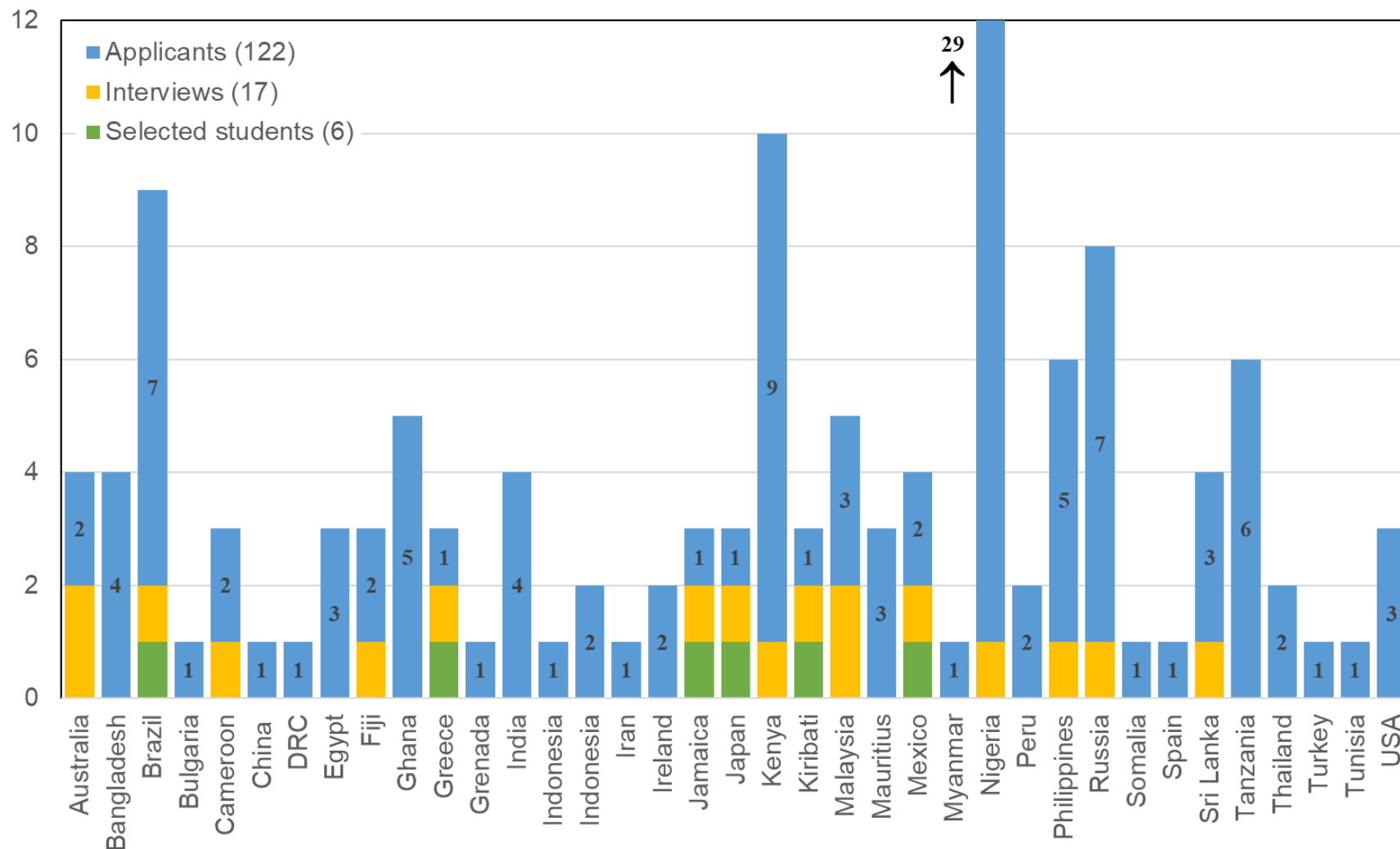
Year 16 class

Mexico
Brazil
Japan

Greece
Jamaica
Kiribati

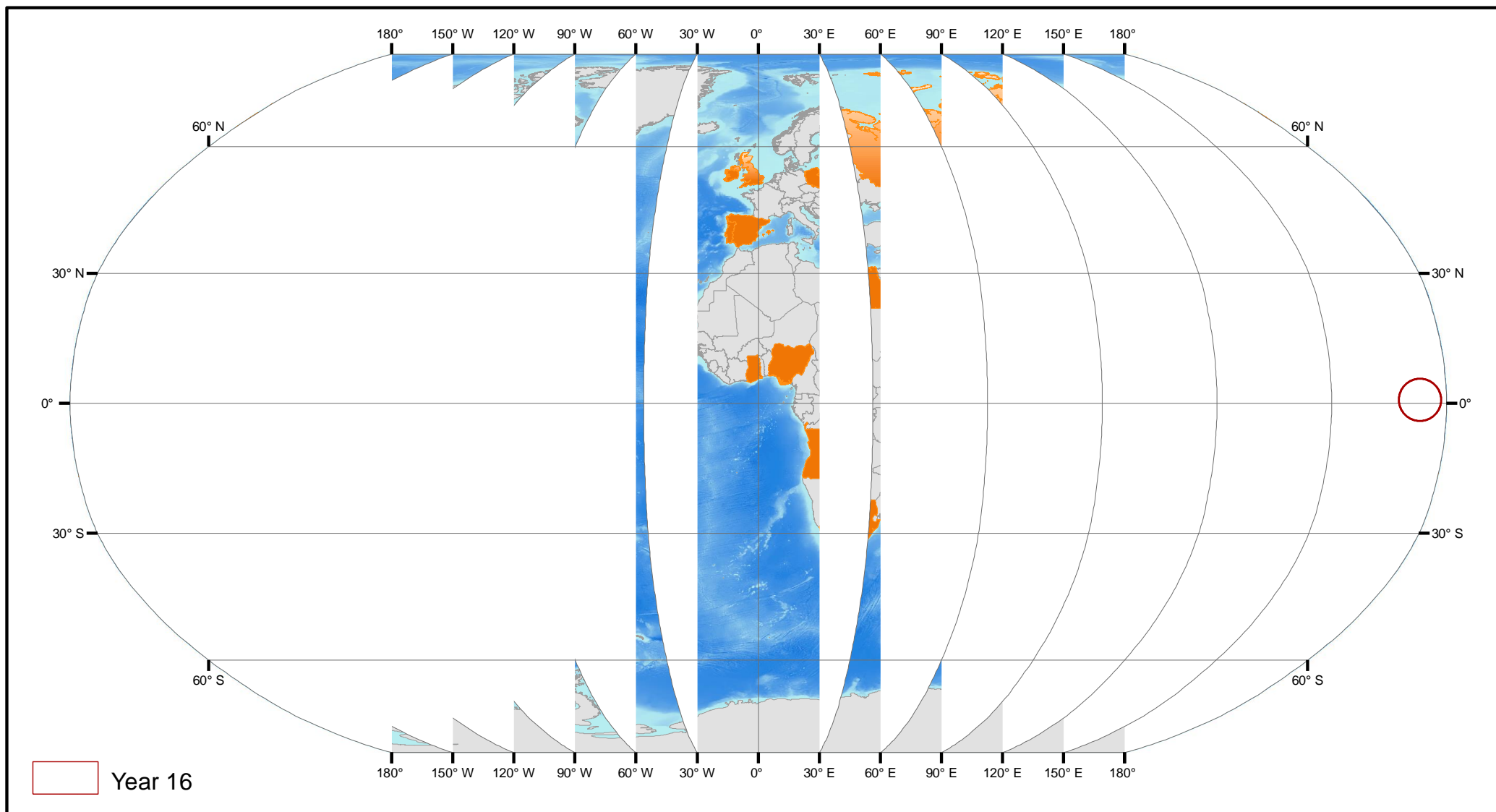


122 applications from 37 countries for 2018/2019



Capacity-building initiative: Nippon Foundation / GEBCO Alumni

90 scholars from 40 coastal states over last 15 years
Add incoming Year 16 class (red hatch) → 96 people from 43 coastal states



Successful Succession Planning

GEBCO Guiding Committee



Sub-Committee on Undersea Features Names



Nippon Foundation / GEBCO Training Program, CCOM UNH



SCRUM Vice-chair



MAP THE GAPS GEBCO Symposium



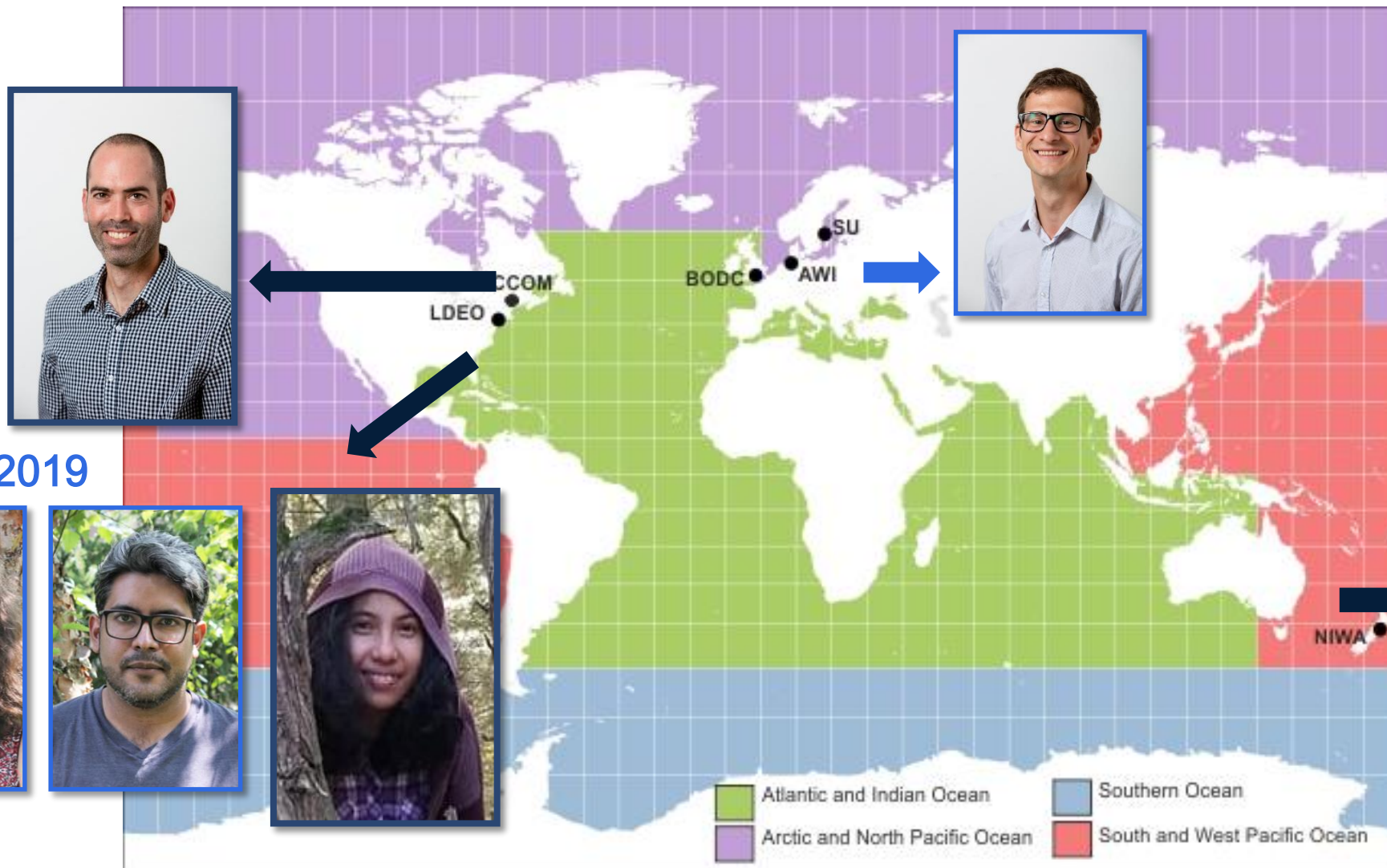
All other GEBCO working groups and committees include alumni...



15 alumni from 11 years attended GEBCO meetings 4th - 9th November 2019



Seabed 2030 Regional Centers



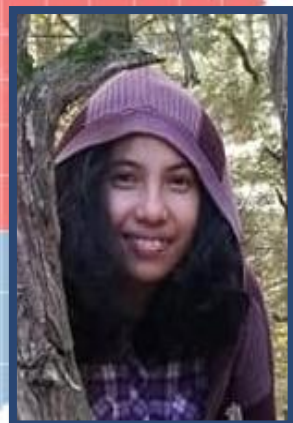
2019



2018

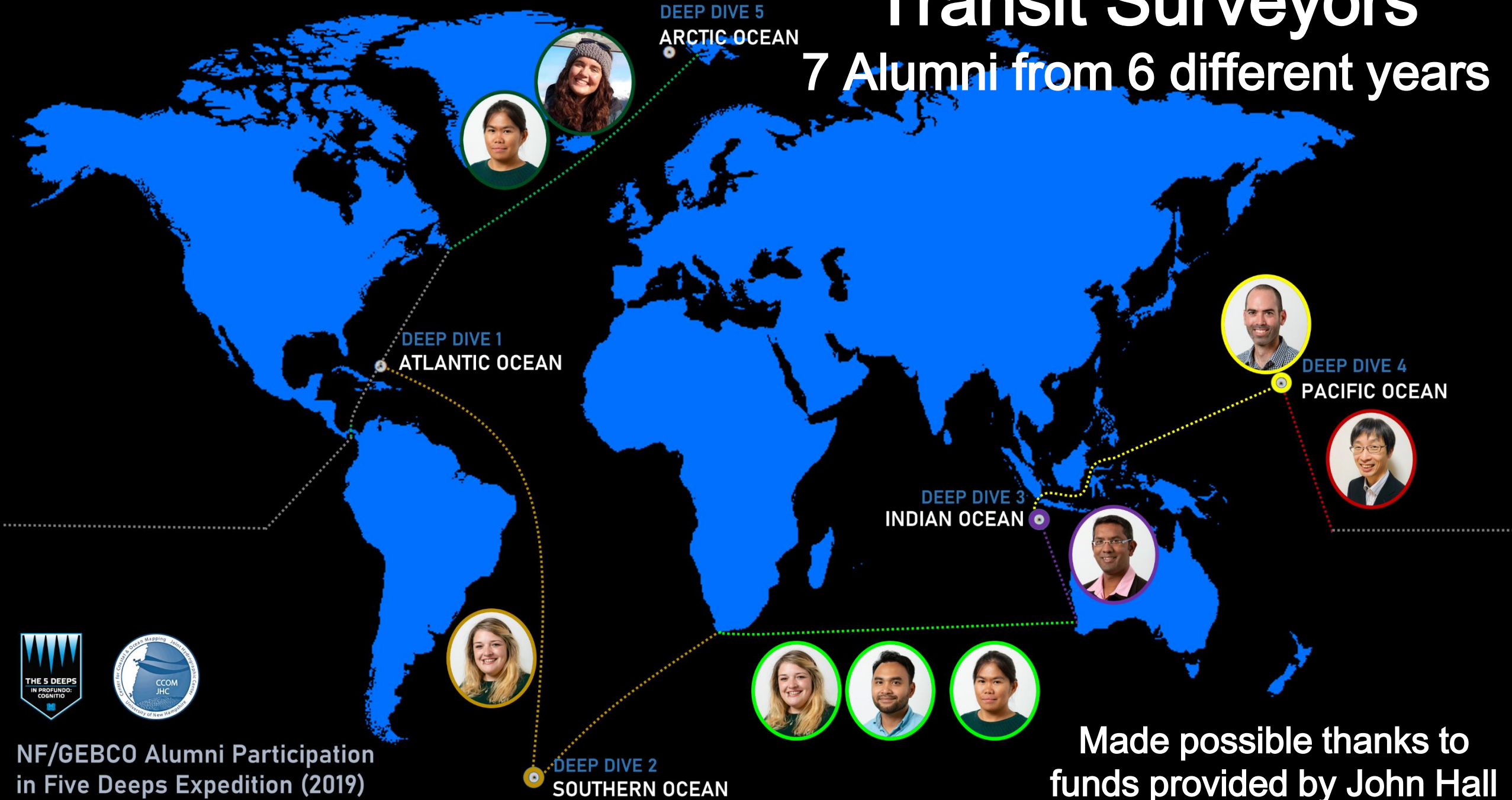


2019



Transit Surveyors

7 Alumni from 6 different years



NF/GEBCO Alumni Participation
in Five Deeps Expedition (2019)

Made possible thanks to
funds provided by John Hall

NIPPON FOUNDATION / GEBCO SEABED 2030 SPECIAL SESSION

The 11th WIOMSA Scientific Symposium
at the University of Mauritius
1st – 7th July 2019

Alumni-led session as regional ambassadors for Seabed 2030 to engage and communicate and to raise awareness for regional collaboration

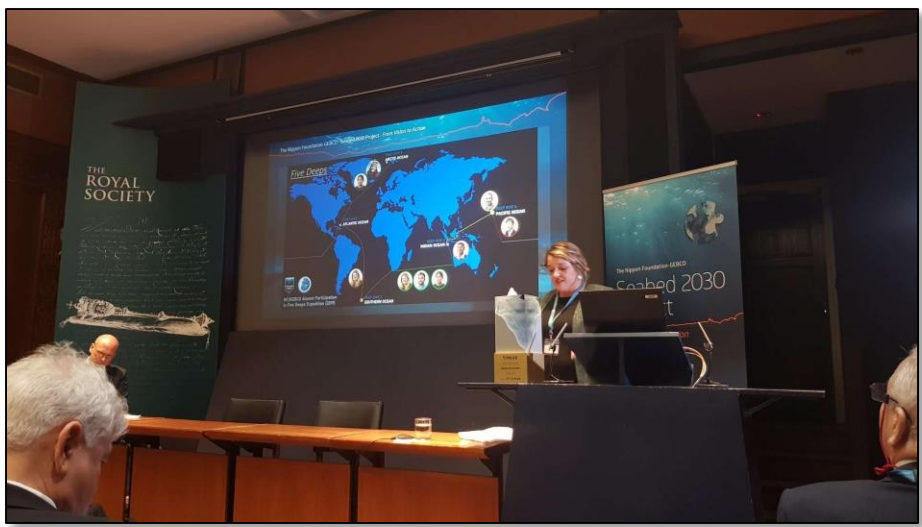
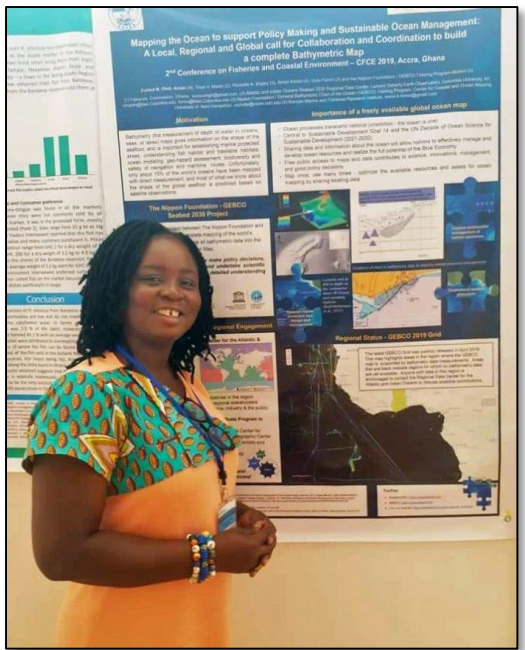
One of conference conclusions:

- Significance of ocean mapping
- Call to the WIO scientific community to collaborate in sharing data and contribute to the endeavor to map the seafloor



Ambassadors for ocean mapping

- Many conference presentations (9 alone related to XPRIZE in 2019 already)
- More than 40 media articles
- Raising local and regional awareness
-



GEBCO-NF Alumni Team funds

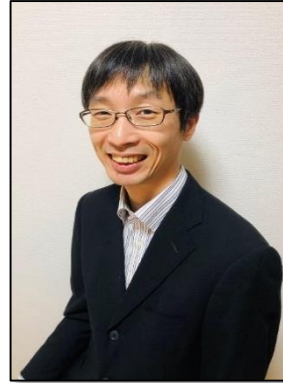


	Funds In	Remaining
Round 1	\$ 3,251,500	
Round 1 Prize Money	\$ 111,111.11	
	\$ 3,362,611.11	\$ 19,227.95
Round 2	\$ 3,092, 801.00	\$ 314,696.63
TOTAL	\$ 6,455,412.11	** \$ 333,924.58

- 5.2% of funds not used (but this includes the Round 1 prize money)
- \$4M Prize money back to Nippon Foundation

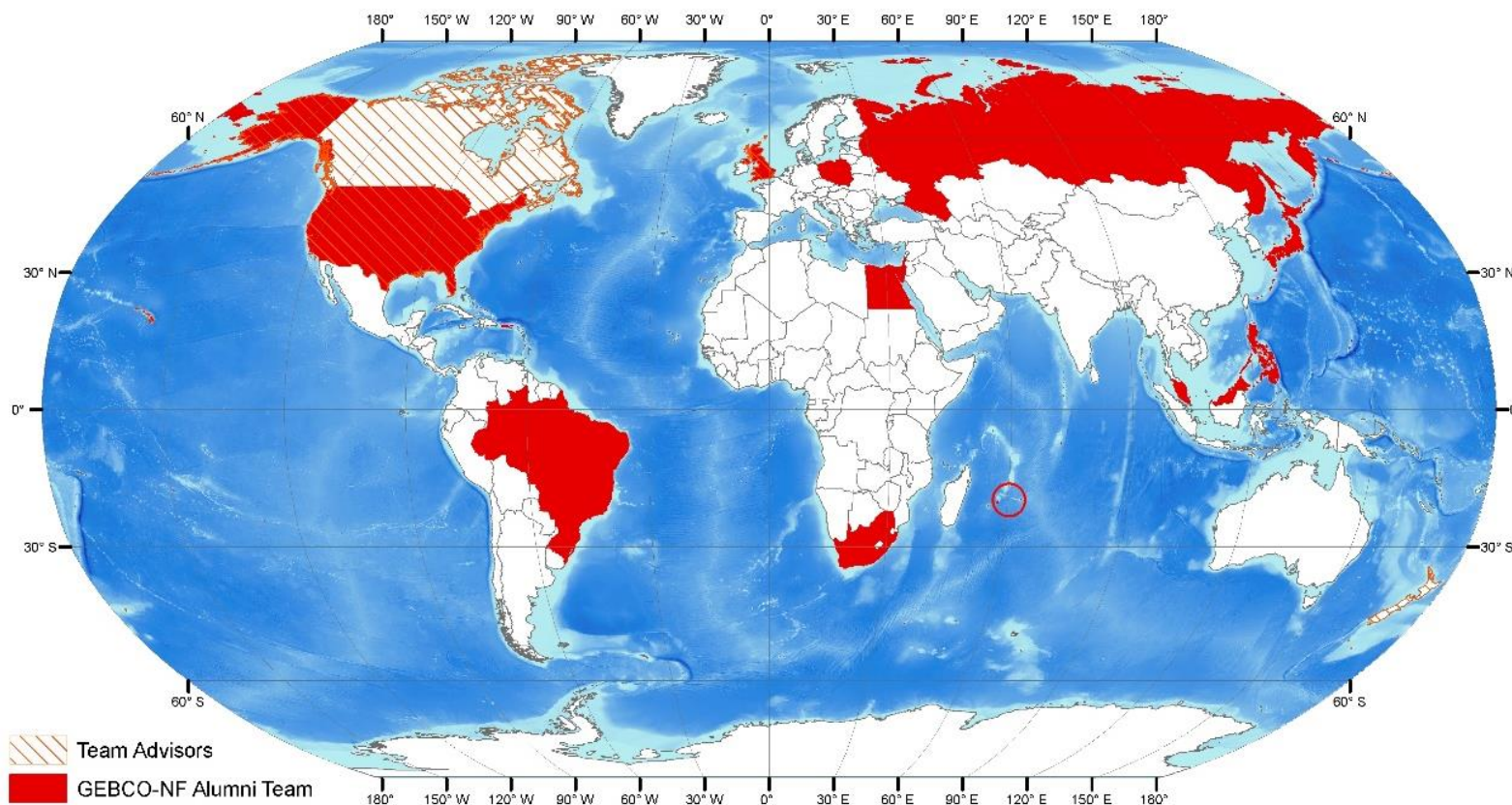
**** Funds likely to be returned to NF – under discussion**

**16 alumni from 11 different years from 13 different countries
>80 people from 22 countries made a significant contribution**



GEBCO-Nippon Foundation Alumni Team

Shell
OCEAN DISCOVERY XPRIZE®



OFG

Ocean Floor
Geophysics



HUSHCRAFT



TELEDYNE
CARIS



EARTH ANALYTIC



Raith Orr
&
Associates Limited
GOVERNMENT & PUBLIC RELATIONS CONSULTANTS



Eclipse
Group



Announced winners of Shell Ocean Discovery XPRIZE on 31 May 2019 at event in Monaco





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