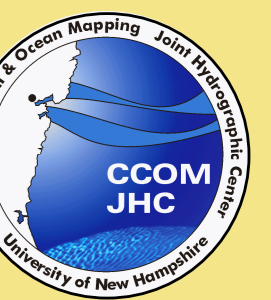




GEBCO Nippon Foundation Indian Ocean Bathymetric Compilation



Rochelle Wigley and Dave Monahan

rochelle.wigley@gmail.com

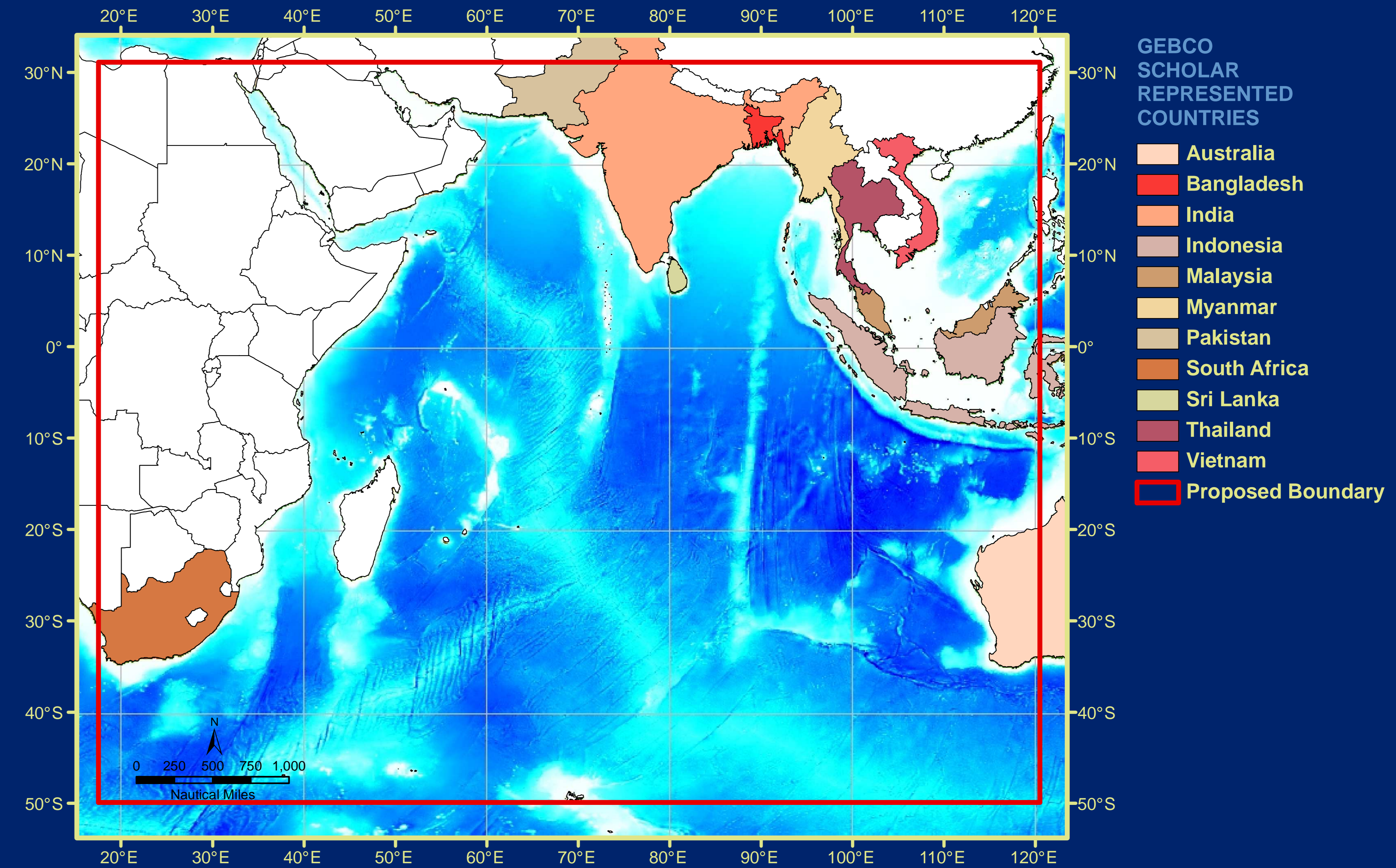
monahand@ccom.unh.edu

Council for Geoscience

The aim of this multi-nation project is to assemble, collate and publish all acoustic bathymetric data from different sources. This will utilize the contacts generated through GEBCO scholars' network to access data from research cruises and hydrographic surveys undertaken in the Indian Ocean, and will combine this data with satellite altimetry, where necessary, to produce a comprehensive and integrated view of the Indian Ocean seafloor. This project will produce both bathymetric grids and a published bathymetric map.

Concept:

- The Indian Ocean represents ~20% of world oceans and yet no new comprehensive data compilation has been undertaken since Bob Fisher compiled data up to 2003.
- The Indian Ocean is prone to tsunamis and other natural disasters. Updated depth data will improve the understanding of this ocean and would be used to promote knowledge of geological processes and could increase public safety by offering the most up-to-date data for modelling oceanographic processes and tsunami-wave behaviour.
- 21 Scholars from 11 Indian Ocean coastal states have been produced through the Postgraduate Certificate in Ocean Bathymetry at the University of New Hampshire.
- These Scholars should be drawn into an active network working on a common project in a geographic area relevant to their home organization. Scholars will all be invited to participate in this project as a means to utilize individual networks and contacts, to build on the skills gained from this training program, to develop Scholars networks further and to produce a product that will benefit all users of bathymetry within this region.
- The *tangible output* will be the production of an up-to-date and updatable database of Indian Ocean bathymetry and a GEBCO Scholars legacy dataset will be established.
- The *enduring outcome* will be twofold, with an improved GEBCO Scholar networks established as well as capacity-building occurring in the Scholar's home country and the development of cooperation in ocean mapping between neighbouring countries.



Project limits:

Latitude: North of -50°S

Longitude: Cape Town, South Africa (~17 °E) to Western Australia (~120 °E)

Project Proponents:

Project Director: Rochelle Wigley (located at the project data centre at CCOM, UNH)

Editorial Board: Colin Jacobs, Dave Monahan, Martin Jakobsson, NGDC representative

Project Funding:

Funding available through the Nippon Foundation special projects

