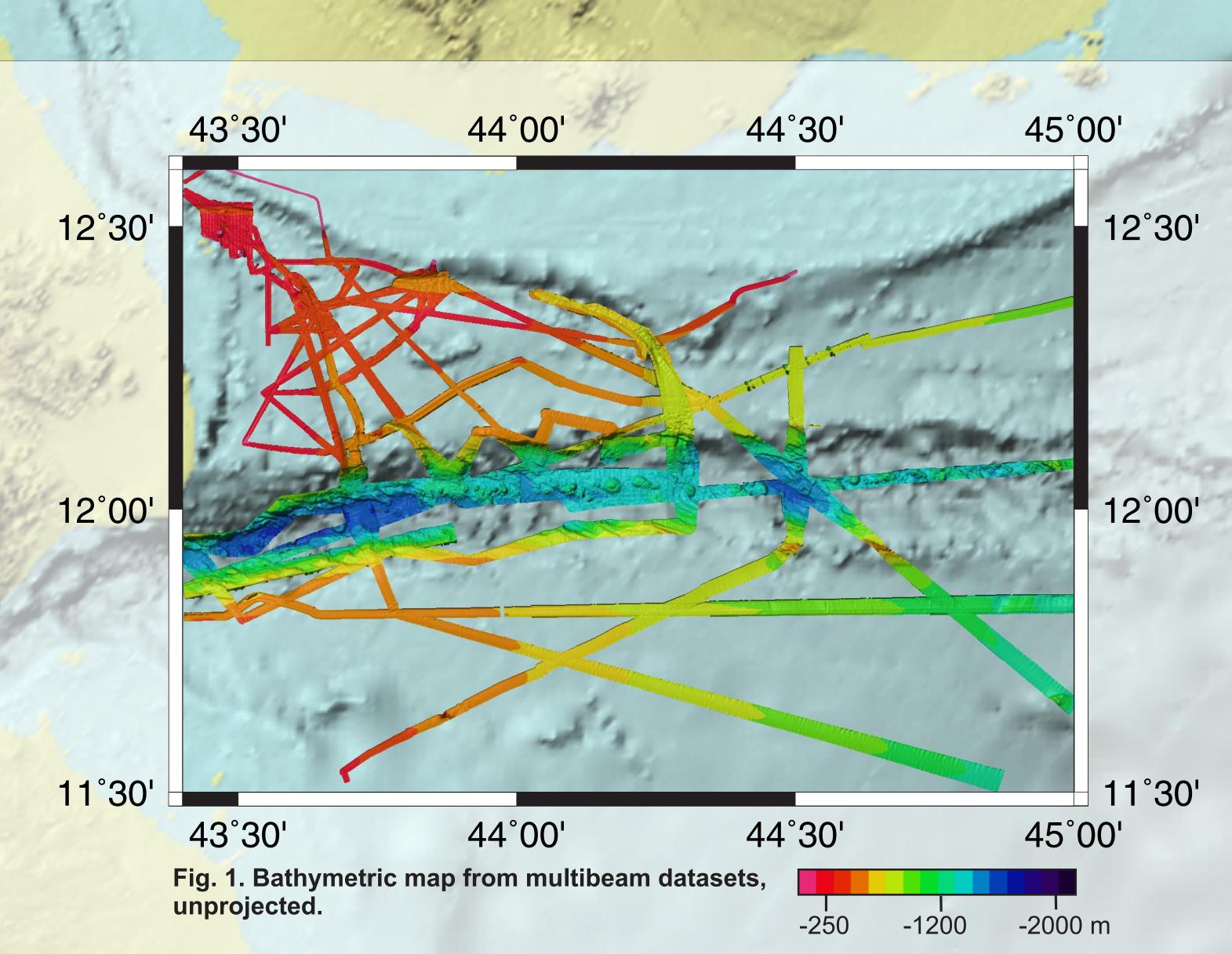
IOBC moves forward with Educational Benefits



GEBCO Bathymetric Science Day October 8, 2013

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Data procesing begins

The Western region of the Gulf of Aden was chosen as an area for testing the procedures of data processing for the IOBC project. Seven datasets, available at

http://maps.ngdc.noaa.gov/viewers/bathymetry/

were used for the compilation of a map presented in Figure 1:

Survey	Source	Ship	Year
1. Ew0109	LDEO*	Maurice Ewing	2001
2. Ew0110	LDEO*	Maurice Ewing	2001
3. Ew0111	LDEO*	Maurice Ewing	2001
4. KN162L11	WHOI**	Knorr	2001
5. KN162L15	WHOI**	Knorr	2001
6. M31L3	Germany	Meteor	1995
7. M32L1	Germany	Meteor	1995
	Marie		

^{*} Lamont-Dohery Earth Observatory

GEBCO / Nippon Foundation Indian Ocean Bathymetric Compilation Project

The IOBC is a multinational project, coordinated by Project Director, Dr. Rochelle Wigley. The main objective is to produce the highest possible resolution bathymetric grid of the Indian Ocean using all available data from various sources.

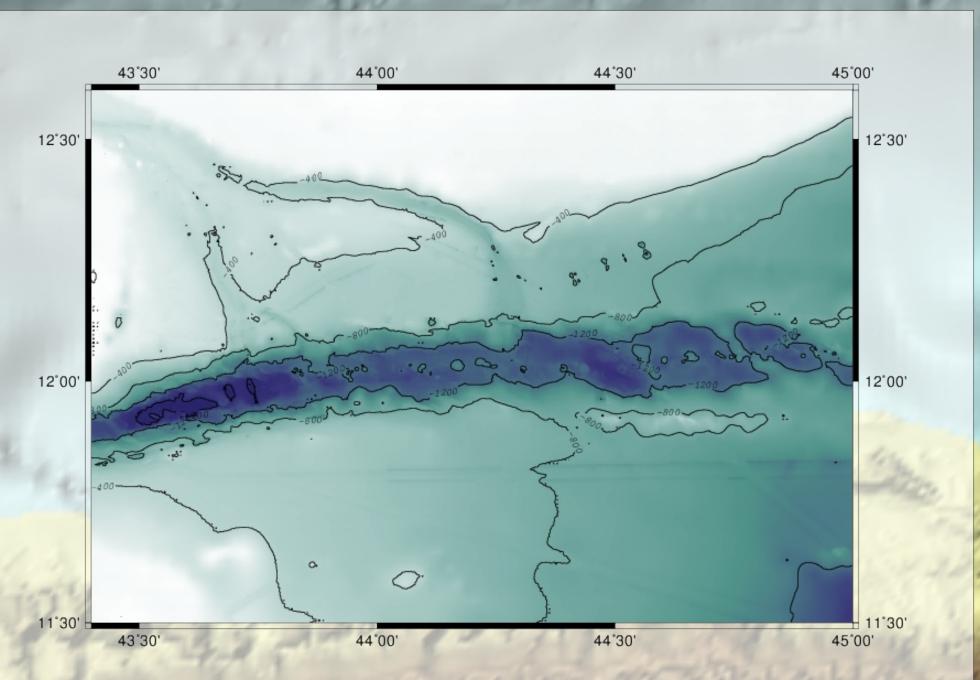
Major data sources were identified by the students of the 8th class (2011-2012) of Nippon Foundation / GEBCO Training Program as a part of the class project. The 9th class (2012-2013) subsequently participated in the first stage of data analysis.

Test grid

Figure 2 presents the GMT plot of the 100 m cell size test grid, generated from multibeam data from seven datasets presented in Figure 1, compiled with the existing GEBCO 30 arc-second grid. A spline algorithm with a tension of 0.75 was used for the surface generation.

Fig. 2. Bathymetric map of test area, generated from 100 m grid. Projection: Mercator.

Contours every 400 m.



Learn more

All the steps of the data analysis are described and explained in a simple way by the class project authors. These descriptions, with accompanying information about Ocean Mapping and GEBCO activities, are available on the project web page. This page not only summarizes the Nippon Foundation / GEBCO 2012-2013 class project, but will also serve as a quick reference and a knowledge base for GEBCO and other scholars.

Visit the project web page: http://ccom.unh.edu/gebco2013/

The GEBCO_08 Grid, version 20100927, http://www.gebco.net

^{**} Woods Hole Oceanographic Institution