

Call for Papers



INTERGOVERNMENTAL OCEANOGRAPHIC
COMMISSION
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INTERGOUVERNEMENTALE
PARIS



CENTENARY 1903–2003



INTERNATIONAL HYDROGRAPHIC
ORGANIZATION
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INTERNATIONALE
MONACO

Second Annual GEBCO Bathymetric Science Day Palisades, New York, USA 12 September 2007 Hosted by the Lamont-Doherty Earth Observatory of Columbia University

The IHO/IOC Guiding Committee for the General Bathymetric Charts of the Oceans (GEBCO, www.gebco.net) is the international body responsible for global bathymetric mapping and the naming of undersea features. GEBCO's Sub-Committee on Digital Bathymetry (SCDB) conducts research, reviews technical challenges and opportunities, maintains and improves the GEBCO Digital Atlas and global bathymetric grid, and advises GEBCO on scientific and technical aspects of its mission. The 23rd meeting of the SCDB will take place 11 – 13 September 2007 at the Lamont Doherty Earth Observatory of Columbia University in Palisades, New York, USA. Oral and poster presentations will be featured throughout the three meeting days. In particular, GEBCO's Second Annual "Bathymetric Science Day" will be 12 September. Contributed oral or poster papers on any topic related to ocean mapping and its applications are welcome. Topics of particular interest to the SCDB's current work include, but are not limited to:

- Variably and adaptively meshed grids. Are quad-trees and other structures mainly a data sorting tool, or are they a way to build a global grid? What are the advantages and challenges, computationally and from an end-user perspective?
- Error estimation. How shall we characterize the uncertainty in global gridded models? Does least-squares optimization yield a realistic result?
- Shoreline issues. How shall land topography, bathymetry, and shoreline data be merged into a medium resolution grid? Is SRTMv2 the best source for a land mask? What about the ocean-ice boundary? What about vertical datums?

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- Harmonizing heterogeneous data. How can we best mix in situ and remotely sensed data, new and old data, acoustic, lidar, radar and hyperspectral data, etc.?
- Application-driven mapping. What aspects of bathymetry are important in habitat studies, hydrodynamic models, and other applications? How does GEBCO perform at these? Which of these features should GEBCO strive to portray?
- Data management and exchange. What are the views of the academic, national and international data centers and agencies on the opportunities, challenges, and best practices? What can GEBCO do to facilitate data exchange and access?

All contributions will be featured on the Agenda, in the Minutes, and on www.gebco.net. SCDB is an excellent venue for exchanging ideas and growing new collaborations. Please come, share your knowledge, and join an international and cross-disciplinary team engaged in exciting and fundamental work. The ocean is big and there is room for everyone to contribute.

Those wishing to contribute a presentation should contact the SCDB Chair by email to walter.hf.smith@noaa.gov, preferably by 1 August 2007. Please include the anticipated Title of the contribution, the Authors and their Institutional Affiliations, and whether an oral or poster presentation is preferred. It is anticipated that, at some time closer to the meeting, a web site will be established to which contributors shall upload PDF or PowerPoint presentations, and Abstracts for the meeting program and minutes.