

TSCOM Activities and Preoccupations

Preliminary report 10-11 October 2016

Hosted by the Hydrographic and Oceanographic Service of the Chilean Navy (SHOA)

Viña del Mar, Chile









TSCOM Mission and Objectives

- Maintain and improve GEBCO products
- Monitor developments and data availability
- Provide scientific and technical advice on bathymetric topics
- Encourage acquisition and exchange of bathymetric data









TSCOM Membership

Committee Members

Jenifer Austin – Google Earth, USA

Vicki Ferrini – LDEO, USA

John Hall – Geological Survey of Israel

Timothy Kearns – OneOcean Corporation, USA

Karen Marks – NOAA, USA (Chair)

Marzia Rovere – Istituto di Scienze Marine, Consiglio Nazional delle Ricerche, Italy

Thierry Schmitt – SHOM, France (Vice Chair)

Walter Smith – NOAA, USA

Shin Tani – Hydrographic and Oceanographic, Coast Guard, Japan

Pauline Weatherall – British Oceanographic Data Center, UK

Scientific Advisors

Paul Elmore, NRL, USA

Tony Pharoah, IHO, Monaco

Martin Jakobsson, Stockholm University, Sweden

David Sandwell, Scripps Institution of Oceanography, USA

There are many more active in TSCOM work

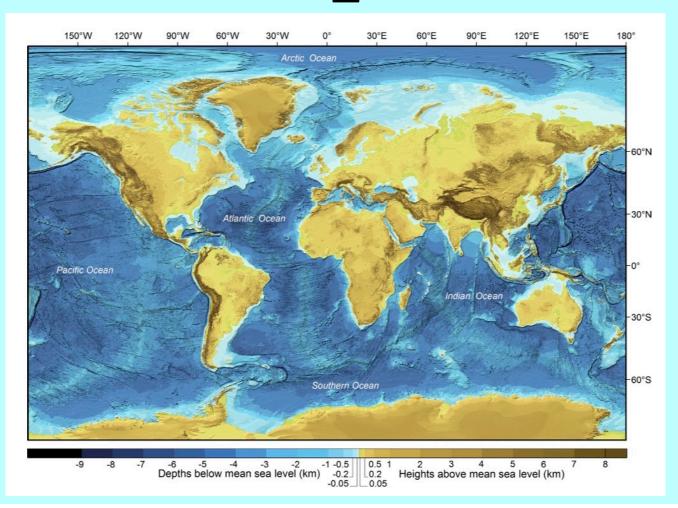








GEBCO_2014



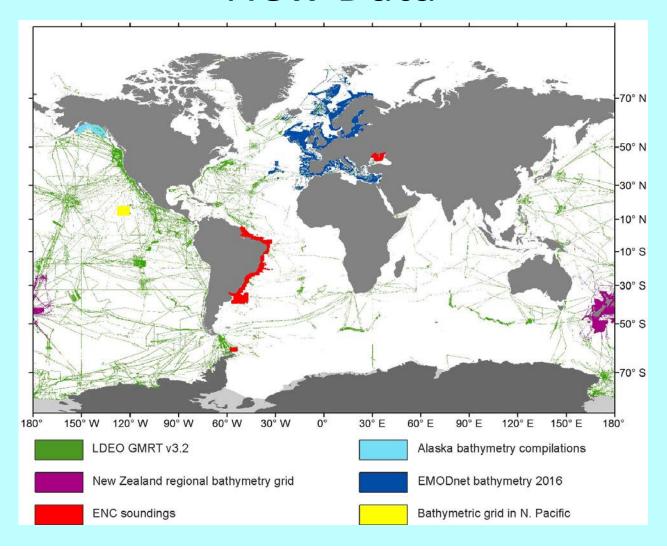
- New data contributed, update planned early 2017
- Download from http://www.gebco.net







New Data



New data to be included in 2017 GEBCO grid update

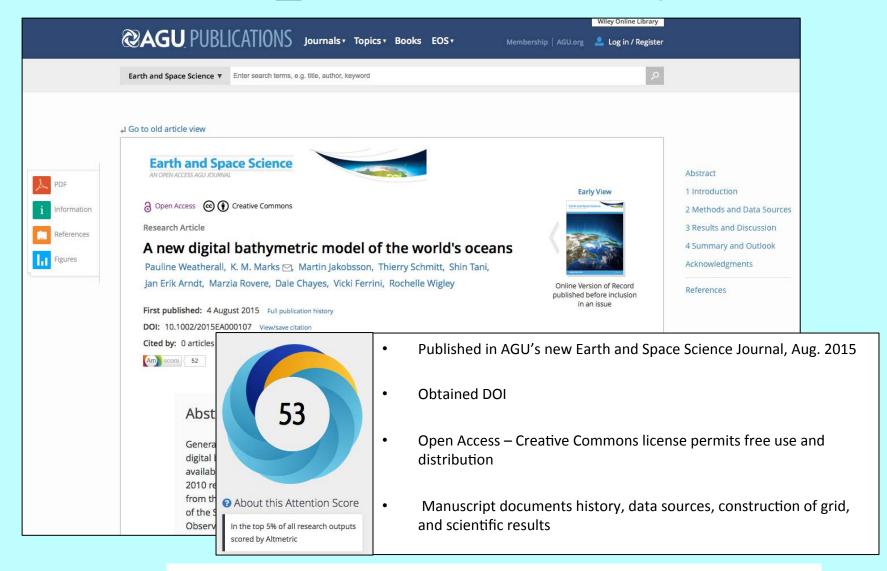








GEBCO_2014 Release Paper

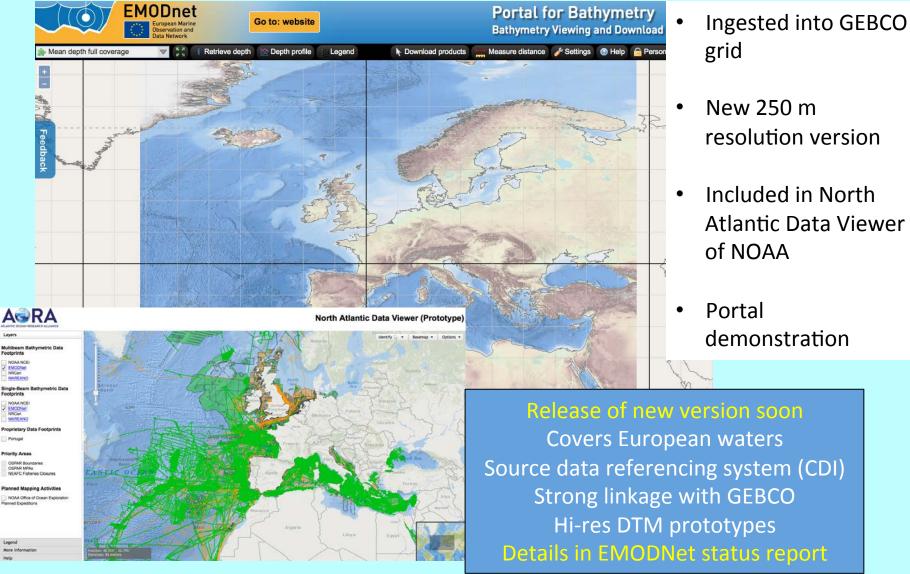








EMODNet Update











Crowd-Sourced Bathymetry WG

- Crowd-Sourced Bathymetry Working Group (CSBWG) established by the IHO IRCC in 2015
- Lisa Taylor is Chair, Correspondence Groups focus on data format and metadata, uncertainty, systems and hardware, and trusted node collection models
- Develop a guidance document to guide mariners in collecting and contributing crowd-sourced bathymetric data
- Enhance the IHO Data Center for Digital Bathymetry (DCDB) to serve as a data portal for crowd-sourced bathymetry
- Held meetings in Kuala Lumpur and Boulder. Next meeting is scheduled in Rostock, Germany









Crowd-Sourced Bathymetry WG



Prototype of data portal for crowd-sourced bathymetry







Outreach Working Group

Eunmi Chang, Hyo Hyun Sung, Pauline Weatherall

- Outreach Roadmap, Strategy, Survey results, and Activities
- Subpage for Secondary School Students
 - Reading
 - Playing
 - Printing
 - Designing
- Break-out session scheduled











Outreach Working Group

Vicki Ferrini, Rochelle Wigley

GEBCO project and community video

News and events - March 2016

GEBCO is an international community of seafloor mapping experts who work toward the common goal of building a global map of the seafloor.

View video clip to find out about GEBCO's work and community.

Learn more about GEBCO and our data sets and products.

Video credits

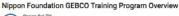
Executive Producers: Vicki Ferrini, Rochelle Wigley

Videography: Vincent DeLuca

Producers: Erin Higgins, Ashely McInerney Post-production: Zlatka Creative, LLC



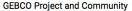






812 views







464 views









GEBCO Hi-Res Product Update

Global Multi-Resolution Topography (GMRT) v3.2 June 2016

- Technical Components from GMRT
 - Integration with GEBCO 2014
 - Grid Composition
 - Image Creation
 - Attribution
 - Web Services
- Needs of Contributors
 - Attribution
 - Analytics
- Workflow
 - Extent of Coverage
 - Editorial Process

http://gmrt.marine-geo.org









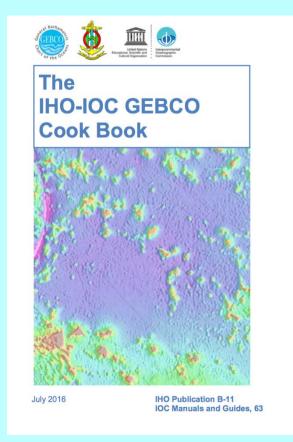


IHO-IOC GEBCO Cook Book

At the 2009 GEBCO 25th Meeting of TSCOM, the "Cook Book Working" Group" was formed to "create a manual that enables users to prepare and grid data for inclusion in GEBCO products," resulting in:

- IHO-IOC GEBCO Cook Book:
- IHO Publication B-11 (April, 2012)
- IOC Manuals and Guides, 63 (Oct. 2012)
- EOS "News Brief" announcing Cook Book was published in EOS Trans. AGU, Feb. 2013
- Article in Hydro Int'l (April, 2014) highlighted Cook Book
- Used as educational resource, including:
 - UNH CCOM/JHC Ocean Mapping classes
 - Texas A&M University
 - Workshops
 - Used internationally
- Available for Download: http://www.gebco.net
- Citation format is published on GEBCO website
- Updated Dec. 2015 and July 2016, seeking new materials









New Updates to Cook Book

- Chapter 8, Section 8.2.11, References updated (P. Doucette)
- Chapter 11, "LANDSAT 8 Satellite-Derived Bathymetry" has been replaced with an updated version (S. Pe'eri, B. Madore, L. Alexander, A. Klemm, A. Armstrong, C. Parrish, C. Azuike, and E. Tetteh)
- Chapter 13.0 Mosaics in CARIS (Lt. Commander Gustavo Adolfo Gomez-Pimpollo Crespo)
- Chapter 14.0 Nautical Chart Adequacy (A. Klemm, J. Nyberg, S. Pe'eri, R. Wigley, L. Gur-Arieh, Y. Kamaruddin, A. Kimeli, H. Kurita, I. B. Prasetyawan, J. Roperez, N. Samarakoon, M. Vallee, J-Y Roh, and J. Sydenham)
- Chapter 15.0 Map Digitizer Program Version 2.1.0 (C. Keller and J. Hall)







11th Annual GEBCO Science Day



- SHOA Naval Club Conference Room, Oct. 12, 2016
- Tim Kearns and Jaya Roperez, Conveners
- 9 oral and 6 poster presentations
- Attendees from all over the world









Nautical Chart Adequacy Workshop



- Workshop developed and hosted by NOAA Coast Survey and UNH/CCOM
- Trained hydrographers on procedures to assess adequacy of nautical charts using public information
- Used Chapter 11 "Nautical Chart Adequacy Procedure" of Cook Book









Break-out Sessions

Outreach Working Group

Update the GEBCO_2014 grid – Regional compilations and base grid

Seabed 2030









END OF PRESENTATION





