

GEBCO TSCOM-SCRUM Venice 2013





Sub-Committee of Regional Undersea Mapping (SCRUM)

Martin Jakobsson
interim Chair

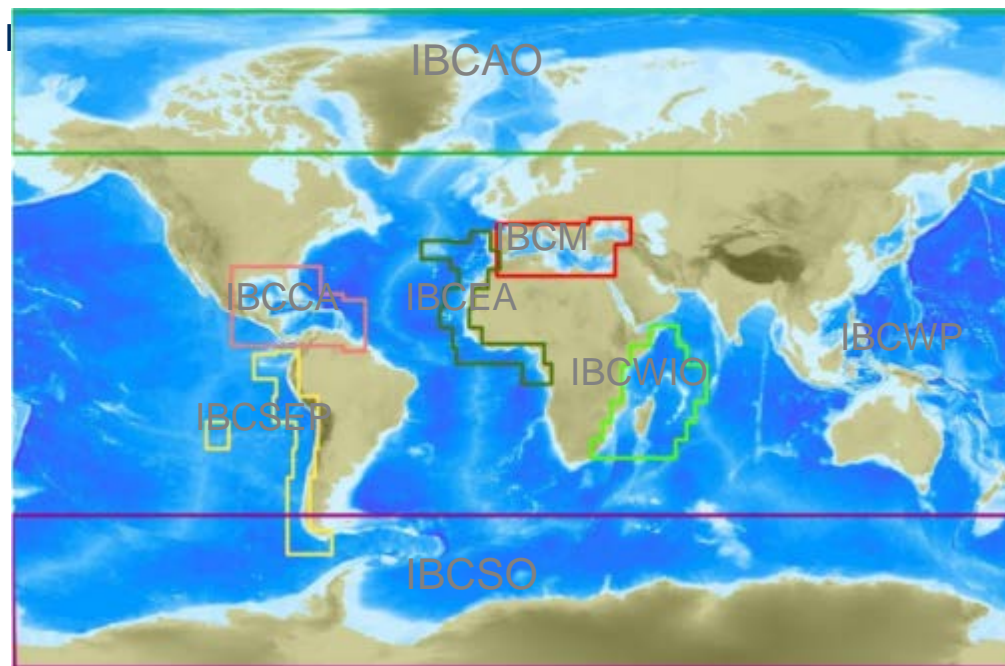
Interim Sub-Committee on Regional Undersea Mapping (iSCRUM)

Initiated at Brest 2009 to:

1. *Facilitate closer collaboration with all existing regional mapping efforts*
2. *Coordinate and encourage incorporation of their compilations into GEBCO.*
3. *Encourage establishment of new regional mapping projects as appropriate*

Interim Chairman: Martin Jakobsson,
Stockholm University, Sweden

Vice Chairman: **To be assigned when endorsed**



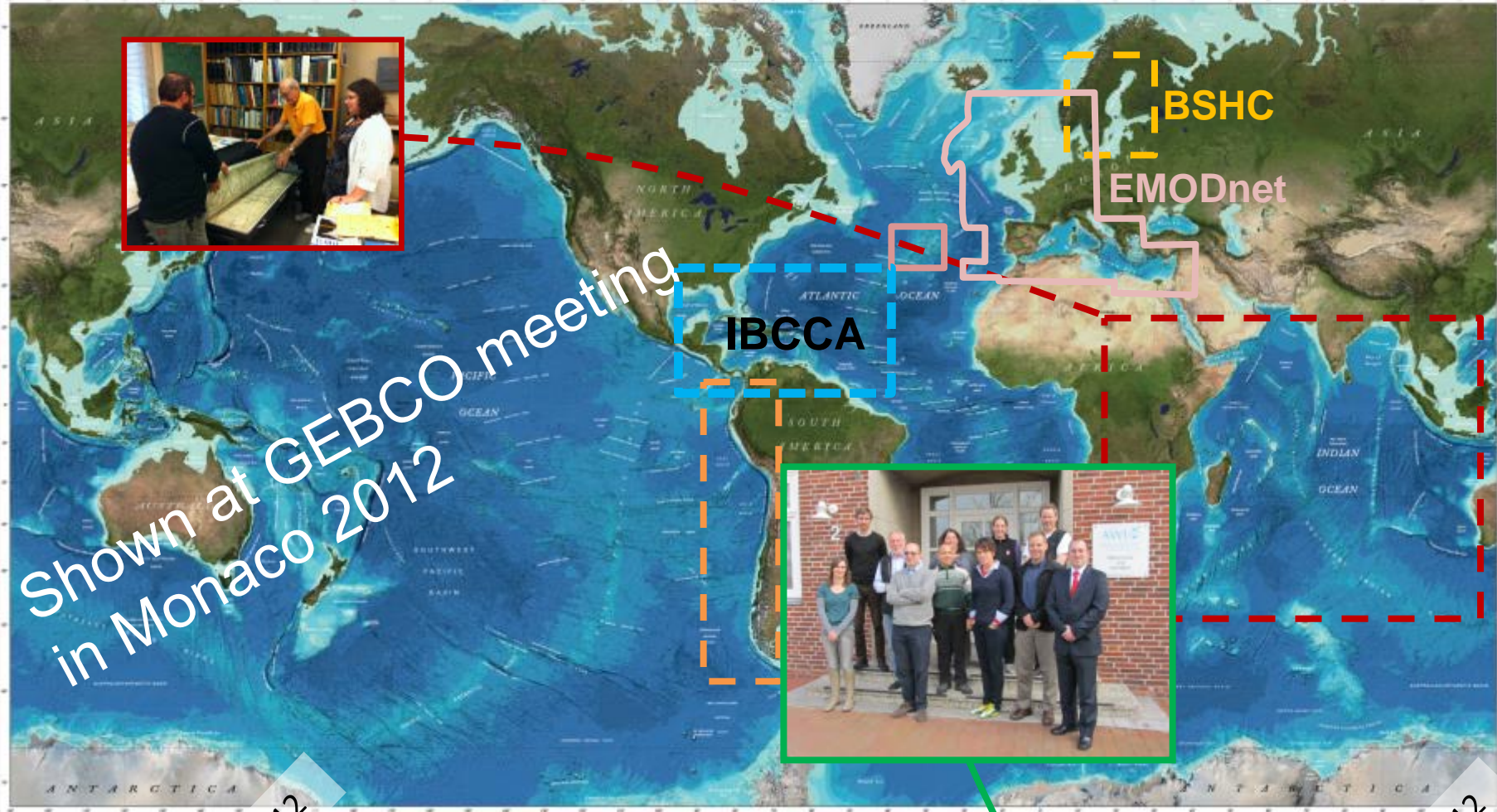
SCRUM is official!



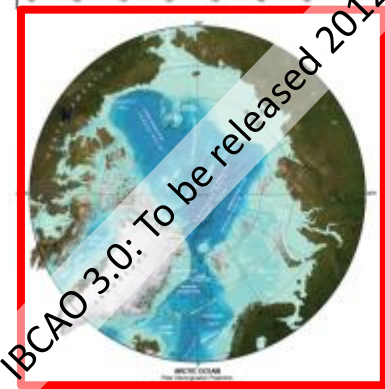
- Endorsement from IOC was received during the 27th Session of the IOC Assembly, 26 June, 2013
- Guiding Committee must decide on Chair and Vice Chair according to ToR

Maintain liaison and cooperate with all existing regional mapping efforts chartered by the IOC under the International Bathymetric Chart (IBC) initiative as well as other relevant regional bathymetric mapping projects.

- 1.2.2 Act as an Editorial Board by reviewing and validating the resulting regional products before incorporation into the GEBCO global grid.
- 1.2.3 Foster coordination between the IBC and other relevant regional bathymetric mapping projects and the IHO Data Centre for Digital Bathymetry (IHO DCDB) to capture, for long-term archive, the bathymetric data used by these projects.
- 1.2.4 Encourage the establishment of new IHO/IOC regional bathymetric mapping projects to fill current gaps in global bathymetry.
- 1.2.5 Establish, support, and/or disband working groups, as needed, to carry out specific tasks or product developments that advance the GEBCO Project.
- 1.2.6 Work closely with other GEBCO Sub-Committees on matters of common interest.



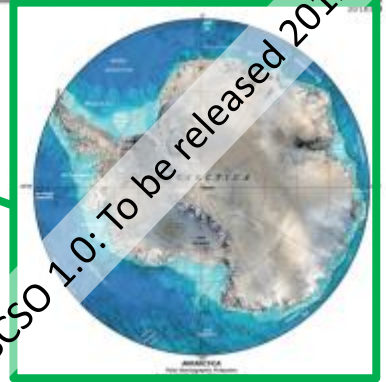
GENERAL BATHYMETRIC CHART OF THE OCEANS (GEBCO)
WORLD OCEAN BATHYMETRY



ABBREVIATIONS
The following abbreviations are used in this chart:
...
DEPTH UNITS
...
VERTICAL DATUM
...
PROJECTION
...
SCALE
...
REFERENCES
...
NOTES
...
CONTACT INFORMATION
...
GEBCO
...
IBCAO
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IBSO
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Formally released regional compilations 2012-2013

IBCAO, Fall 2012

GEOPHYSICAL RESEARCH LETTERS, VOL. 39, L12609, doi:10.1029/2012GL052219, 2012

The International Bathymetric Chart of the Arctic Ocean (IBCAO) Version 3.0

Martin Jakobsson,¹ Larry Mayer,² Bernard Coakley,³ Julian A. Dowdeswell,⁴ Steve Forbes,⁵ Boris Fridman,⁶ Hanne Hodnesdal,⁷ Riko Noormets,⁸ Richard Pedersen,⁹ Michele Rebesco,¹⁰ Hans Werner Schenke,¹¹ Yulia Zarayskaya,¹² Daniela Accettella,¹⁰ Andrew Armstrong,² Robert M. Anderson,¹³ Paul Bienhoff,¹⁴ Angelo Camerlenghi,¹⁵ Ian Church,¹⁶ Margo Edwards,¹⁷ James V. Gardner,² John K. Hall,¹⁸ Benjamin Hell,¹ Ole Hestvik,¹⁹ Yngve Kristoffersen,²⁰ Christian Marcussen,²¹ Rezwan Mohammad,¹ David Mosher,²² Son V. Nghiem,²³ Maria Teresa Pedrosa,¹⁵ Paola G. Travaglini,⁵ and Pauline Weatherall²⁴

Received 2 May 2012; revised 4 June 2012; accepted 4 June 2012; published 29 June 2012.

[1] The International Bathymetric Chart of the Arctic Ocean (IBCAO) released its first gridded bathymetric compilation in 1999. The IBCAO bathymetric portrayals have since supported a wide range of Arctic science activities, for example, by providing constraint for ocean circulation models and the means to define and formulate

1. Introduction

[2] For generations there was only speculation as to what lay beneath the frozen sea ice of the high Arctic. Even towards the end of the 19th century, maps of the region depicted large continental land-masses beneath the ice

IBCSO, Spring 2013

GEOPHYSICAL RESEARCH LETTERS, VOL. 40, 3111–3117, doi:10.1002/grl.50413, 2013

The International Bathymetric Chart of the Southern Ocean (IBCSO) Version 1.0—A new bathymetric compilation covering circum-Antarctic waters

Jan Erik Arndt,¹ Hans Werner Schenke,¹ Martin Jakobsson,² Frank O. Nitsche,³ Gwen Buys,⁴ Bruce Goleby,⁵ Michele Rebesco,⁶ Fernando Bohoyo,⁷ Jongkuk Hong,⁸ Jenny Black,⁹ Rudolf Greku,¹⁰ Gleb Udintsev,¹¹ Felipe Barrios,¹² Walter Reynoso-Peralta,¹³ Morishita Taisei,¹⁴ and Rochelle Wigley¹⁵

Received 29 January 2013; revised 22 March 2013; accepted 23 March 2013; published 20 June 2013.

[1] The International Bathymetric Chart of the Southern Ocean (IBCSO) Version 1.0 is a new digital bathymetric model (DBM) portraying the seafloor of the circum-Antarctic waters south of 60°S. IBCSO is a regional mapping project of the General Bathymetric Chart of the Oceans (GEBCO). The IBCSO Version 1.0 DBM has been compiled from all available bathymetric data collectively gathered by more than 30 institutions from 15 countries. These data include multibeam and single-beam echo soundings, digitized depths from nautical charts, regional bathymetric gridded compilations, and predicted bathymetry. Specific gridding techniques were applied to compile the DBM from the bathymetric data of different origin, spatial distribution, resolution, and quality. The IBCSO Version 1.0 DBM is available at <http://www.gebcoscience.org/ibcsoserver/>.

1. Introduction

[2] Knowledge about the bottom topography of the World Oceans is imperative for a broad variety of scientific research. Despite modern icebreakers' mapping capabilities, available bathymetric portrayals of the Southern Ocean are poorly constrained. In addition, problems of using satellite altimetry to guide interpolation of depths in between soundings when sea ice is present and on continental shelves imply specific challenges for the compilation of bathymetric portrayals of the Earth's polar regions [Smith and Sandwell, 1997].

[3] The northern equivalent project to the International Bathymetric Chart of the Southern Ocean (IBCSO), the International Bathymetric Chart of the Arctic Ocean (IBCAO), was

BSHC, Fall 2013





Monday Oct 7 SCRUM and TSCOM

09:30: TSCOM activities and preoccupations (Bruce Goleby)

09:45: SCRUM activities and preoccupations (Martin Jakobsson)

Status Reports from regional bathymetric compilations

10:00: Baltic Sea Bathymetry Database (Hans Öiås/Benjamin Hell)

10:20: International Bathymetric Chart of the Southern Ocean (IBCSO) Jan-Erik Arndt

10:40-11.10 Refreshment Break

11:10: International Bathymetric Chart of the Arctic Ocean (IBCAO) (Martin Jakobsson)

11:30: Indian Ocean GEBCO Nippon Foundation Bathymetric Compilation (Rochelle/Dave)

~~11:50: IHO-IOC GEBCO Cook Book report (Karen Marks)~~

12.10 - 13.30 Lunch

~~13.30: Science Day report (Paul Elmore)~~

13:50-14:10: International Bathymetric Chart of the Caribbean Sea and the Gulf of Mexico (IBCCA)

14:10-14:40: *Additional regional compilations: open slot for short reports and discussion*

Global bathymetric compilations (times to be assigned)

The state of the GEBCO Grid (Pauline Weatherall)

The LDEO 100 m grid (Vicky Ferrini)

EMODNet (Eric Moussat)

Google Ocean Update (Jenifer Austin Foulkes)

New data sources: crowd sourcing etc.

Crowd source data (Tony Pharaoh)

GEBCO Outreach and Education (Hyo Hyun Sung)

Data in the Cloud (Tim Kearns)

15.00-15:30: Refreshment Break



Wednesday 9 Oct (SCRUM and TSCOM)

Break-out sessions (09:15-14:30)

Potential topics:

- Regional compilations (route to GEBCO grid, copyright issues, new projects, data sharing)
- Updating the GEBCO grid
- Metadata, attribution, multi-scale resolution
- Crowd-sourcing
- Documenting GEBCO grid in journal article

12.00-13.30 Lunch

14.30-15.00: Refreshment Break

TSCOM and SCRUM reconvenes 15:00-17:00

Break-out sessions report results, recommendations, and action plans