

SCRUM Report

Submitted by the GEBCO Sub-Committee on Regional Undersea Mapping (SCRUM)

SUMMARY

Executive Summary: This report summarizes the SCRUM activities since the previous GEBCO meetings in October 2015.

Action to be taken:

Related documents: GGC33-1.6.1-GEBCO_GC_Agenda-v3.0.pdf, GGC33-7.2.1.3-Draft_SCRUM_Work_Plan_2017-2018-v2.0.pdf

1. The Arctic/Antarctic Workshop was held in June 2016 (see agenda item 4.2). The aim was to assess the status of mapping and data collection activities in these regions and look at the future updating of the International Bathymetric Chart of the Arctic Ocean (IBCAO) and International Bathymetric Chart of the Southern Ocean (IBCSO). The IBCAO and IBCSO data sets are included in the GEBCO global grid.
2. GEBCO colleagues attended and gave presentations about GEBCO to Regional Hydrographic Commission (RHC) meetings: 32nd North Sea Hydrographic Commission meeting, Dublin, June 2016 and the 13th Southern Africa and Islands Hydrographic Commission (SAIHC) meeting, August 2016. The presentations given are available on GEBCO's web site:
http://www.gebco.net/about_us/presentations_and_publications/
3. Bathymetric sounding data from Electronic Navigation Charts (ENCs) has been included in the GEBCO grid and has helped to improve the data set in shallower water areas. This resulted from a request made in 2006 by the IHB on behalf of GEBCO to IHO Member States (MS) to provide sounding data held in their ENC systems (usage bands 2 and 3).

A further request for bathymetric soundings from ENCs was made to MS by the IHB on behalf of GEBCO in March 2016. To date, an additional three data sets have been received from Brazil, Ukraine and Uruguay.
4. Information provided by Rochelle Wigley (Indian Ocean Bathymetric Compilation (IOBC) lead and NF/GEBCO training programme director).

Work is progressing with IOBC project. It now includes 75 cleaned multibeam surveys, with the plan of including an additional 18.

The IOBC is also used as a training tool in the Spring Semester at the University of New Hampshire, where GEBCO students work on assimilating a dataset into the

IOBC database - gives them practical experience in getting data from World data center to a final map product.

The following is a list of some of the presentations given and meetings by Rochelle Wigley.

- Sri Lanka: Discussions at National Hydrographic Office and National Institute of Oceanographic Marine Studies of the National Aquatic Resources Research and Development Agency (NARA). Brief discussions with NARA staff on GEBCO and the Training Program.
 - Bangladesh: Presentation to staff and all students at the Institute of Marine Sciences and Fisheries of the University of Chittagong on the IOBC and GEBCO in general.
 - Vietnam:
 - Visit to the Vietnam Academy of Science and Technology (VAST) - specifically with the Institute of Marine Geology and Geophysics (IMGG). Gave a presentation to all IMGG staff and others from VAST on GEBCO and IOBC. Visit to the Research Institute for Marine Fisheries (RIMF) with Thanh Duh Nguyen - discussions on GEBCO projects.
 - Visit to the Hanoi University of Mining and Geology, met with the Dean and lecturers from Dept. of Geodesy.
 - Visit to the Vietnam Maritime Safety - North and met the Director and other colleagues.
 - Visit to the Vietnam National Hydrographic Office (VNHO) of the Vietnam Navy and met Head Hydrographer amongst others and gave a presentation on GEBCO, GEBCO projects and the training program
5. Work is progressing towards the development of a new release of the GEBCO global grid (aimed for early 2017). In addition to sounding data sets made available through national and international databases and recently supplied ENC data, GEBCO has been provided with or made aware of a number of new regional compilations including:
- New Zealand Regional Bathymetry grid – made available by the National Institute of Water and Atmospheric Research (NIWA), New Zealand
 - EMODnet 2016 release – bathymetric grid for European waters supplied by the EMODnet Bathymetry project
 - Global Multi-Resolution Topography Data Synthesis (GMRT) v3.2
 - Alaska bathymetry compilations for the Aleutian Islands, Cook Inlet, central Gulf of Alaska and Norton Sound
 - Bathymetric grid for the Israeli EEZ
 - Bathymetric grid, based on multibeam data, for a region of the North Pacific, 1,800 km southwest of the Mexican Baja Peninsula *data supplied by a commercial company*

Further details about items 3 and 4 can be found in the [Digital Atlas Manager report](#) (agenda item 2.4).

6. SCRUM Work Plan and Budget 2017 – 2018

The SCRUM Work Plan and funding requests for the period 2017 – 2018 are included in a tabled document for this meeting (document [GGC33-7.2.1.3-Draft_SCRUM_Work_Plan_2017-2018-v2.0.pdf](#)).

Tasks include:

Identify priority areas for regional mapping and support the organization of regional mapping projects. Task leader, Chair SCRUM, this activity is on-going.

Promote data contribution through GEBCO participation in RHCs meetings. A milestone for this task is to identify GEBCO colleagues who are able to attend for meetings in 2016 – 2018. A funding bid of 5K Euro has entered to help support this work.

Maintain IHO bathymetric publications, milestones include:

- Update GEBCO global 30 arc-second grid with new compilations
- Update GEBCO World Map to include updated versions of GEBCO grid and adopted undersea feature names from SCUFN