

Report on the Sub-Committee for Regional Undersea Mapping

Submitted by Chair SCRUM

SUMMARY

Executive Summary: This report summarized the SCRUM activities since the previous GEBCO meetings in October 2016

Action to be taken: 8

Related documents: None

1. SCRUM contributed to the development of the Seabed 2030 Roadmap that was released in June 2017. Seabed 2030 Regional Data Assembly and Coordination Centres (RDACC) will be important in helping SCRUM and GEBCO meet its objectives, and members of SCRUM will play an important in supporting the Seabed 2030 Initiative.
2. Provided input to GGC33-6.3 IHO Resolutions.
3. Held joint TSCOM/SCRUM Meeting in Busan, Republic of Korea Nov 13-14, 2017. Reports were given on regional mapping and engagement activities, and on Seabed 2030. Two breakout sessions were held to discuss plans/needs for TSCOM and SCRUM and to provide input from TSCOM and SCRUM to Seabed 2030.
4. GEBCO colleagues attended and gave presentations about GEBCO at Regional Hydrographic Commission (RHM) meetings: Protection of the Marine Environment (ROPME) Sea Area Hydrographic Commission (RSAHC) meeting, 20 - 22 February 2017, Muscat, Oman; Briefing on the work of GEBCO to the 14th Eastern Atlantic Hydrographic Commission meeting, 18-20 October 2016, Cádiz, Spain The presentations given are available on GEBCO's website: https://www.gebco.net/about_us/presentations_and_publications/
5. New GEBCO grid has been developed with significant contributions, but will not be released until 2018. In its present form, the new GEBCO grid contains 12.4% multibeam bathymetry data, up from 9% in the GEBCO_2014 product. 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:
 - 2016 version of the EMODnet Bathymetry grid for European waters
 - 2016 version of the Lamont-Doherty Earth Observatory's GMRT
 - GEBCO / Nippon Foundation Indian Ocean Bathymetric Compilation project data set

- New Zealand Regional Bathymetry (2016) – grid
- Bathymetric grids for waters in the North Pacific, 1,800 kilometers southwest of the Mexican Baja Peninsula. Supplied by: Global Sea Mineral Resources NV
- Bathymetry data collected during the search for flight MH370, phase 1 release – supplied by Geoscience Australia
- Bathymetric grids from US NOAA Alaska Fisheries Science Center, waters off Alaska
- BOEM Northern Gulf of Mexico Deepwater Bathymetry Grid from 3D Seismic
- Red Sea area bathymetric grid: doi:10.1594/PANGAEA.860374
- Bathymetric grid in the Southeast Pacific: (Weinrebe et al, 2012)
- A compilation of the South Sandwich Island Volcanic Arc from British Antarctic Survey (BAS)
- Bathymetry data from a multibeam cruise off the Antarctic Peninsula supplied by the Centre for Oceanographic and Hydrographic Research, Colombia
- Bathymetry of Lake Victoria, supplied by John Hall
- Bathymetry off East coast of South America based on ENC soundings from Brazil, Uruguay and Argentina.

Further details can be found in the GEBCO Digital Atlas Manager Report

6. IBCSO and IBCAO will benefit directly from Seabed 2030 as each will fall within Regional Data Assembly and Coordination Centres. The next release of IBCSO will be extended to 50° South. Existing data sets that can be included in the next release of IBCSO and IBCAO were identified at the 2016 Arctic/Antarctic Mapping Meeting held in Monaco. IOBC efforts are ongoing and the 18 arcsec compiled grid currently includes data from 94 multibeam surveys.

7. SCRUM Work Plan and Budget 2018-2019

The SCRUM Work Plan and funding requests for the period 2018 – 2019 are included in a tabled document for this meeting (document GGC34-7.2.1.3-Draft_SCRUM_Work_Plan_2018-2019-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.
- Develop a simple method for interested people to alert SCRUM of data that may be available for integration into different regional compilations. Task leader, Chair SCRUM.
- 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 2018 – 2019.
- Increase SCRUM interactions during the year through an updated SCRUM mailing list, and at least one virtual meeting before the next in-person meeting.
- Support participation at Regional Mapping Meetings. Offer partial travel support for capacity building to facilitate the attendance of upcoming

regional mapping meetings for those who cannot support their own travel. A funding bid of 5K Euro has entered to help support this work.

- Facilitate the contribution of information about data contributions by deploying a web form to gather information about data and contacts.
 - 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
 - Support Seabed 2030 by providing scientific expertise and outreach support
8. The GGC is requested to note the contents of this report and take action as deemed appropriate.