

The IHO Crowdsourced Bathymetry Working Group 8



IHO Crowdsourced Bathymetry Initiative

1. *Establishment of the IHO Crowdsourced Bathymetry Working Group*

Prepare an IHO document on policy for trusted crowdsourced bathymetry to provide guidance on the collection and assessment of CSB data inclusion in the global bathymetric data set which is maintained in the IHO Data Centre for Digital Bathymetry (DCDB).

Chair: Jennifer Jencks, NOAA

Vice Chair: Serge Gosselin, Director, CHS

Secretary: David Wyatt, IHO

2. *Enhance the IHO's DCDB to accept, archive, and make CSB data freely available.*



International Hydrographic Organization
Organisation Hydrographique Internationale



IHO CSB Working Group

- 7 meetings; 1 Industry workshop
- Representatives from 14 Member States:

Canada, Italy, Nigeria, Norway, Philippines, Denmark, Finland, France, Germany, India, Portugal, N Zealand, UK, & USA

- Observers and expert contributors:

TeamSurv, Olex, Sea-ID, GMATEK, Inc., FarSounder, World Maritime University, World Ocean Council, Fugro, CIDCO, ChartWorld/SevenC's, ONE Data Tech Co, Da Gamma Maritime Ltd, and Dongseo University

- Former IHO Secretary General Robert Ward, IHO Secretary General Mathias Jonas and Assistant Director David Wyatt



CSBWG2: 10-11 Jan 2016
Boulder, Colorado, USA



CWBWG3: 7-8 Nov 2016
Warnemunde, Germany



What have we been doing?

Correspondence Groups were established and tasked with drafting specific chapters of B-12



CWBWG4: 13-14 Feb 2017
Durham, New Hampshire, USA

Chapter 1: Data Contribution

- Describes how to send CSB to the DCDB via Trusted Nodes

Chapter 2: Data Collection

- Overview of sensors necessary to collect CSB
- Describes best practices and rec. for collecting CSB

Chapter 3: Data and Metadata

- Describes the importance of data and metadata
- Details the info that is required for submitting CSB to the DCDB & additional info that should be collected whenever possible.



What have we been doing?

Correspondence Groups were established and tasked with drafting specific chapters of B-12



CWBWG5: 5-6 Dec 2017
IHO, Monaco



CWBWG6: 19-21 Jun 2018
Boulder, Colorado, USA

Chapter 4: Uncertainty

- Discusses how mariners and end users can better understand the impact of various factors on the reliability of a dataset.

Chapter 5: Additional Considerations

- Discusses issues that collectors and Trusted Nodes may wish to consider before engaging in CSB activities, taking into account differing views of coastal states.





B-12 Edition 2.0.2

https://www.iho.int/iho_pubs/bathy/B_12_Ed2.0.2_2019.pdf



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Guidance on Crowdsourced Bathymetry

IHO



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Current & future CSBWG tasks

- Continue to develop outreach & recognition strategies
 - Increase data contribution and incentives on how and why to become involved
- Identify potential uses of CSB data
 - how it can be portrayed, with concrete and useful examples
- Provide guidance on data quality and standards for CSB for potential future Bathymetric Information Overlay (BIO) to be displayed on an ECDIS or ECS
- Liaise with other IHO bodies involved with potential uses of CSB data, such as GGC, MSDIWG, DQWG and HSPT.



CWBWG7:13-14 Feb 2019
Quebec City, Canada



Day 1 Agenda

Welcome

Updates of Current IHO CSB-related Projects

Updates on the Member State Data Gathering Policy

- Review Member States replies to IHO CL 11/2019 with respect to data collection policy for each coastal state.
- Development of a list of coastal states who support the collection of CSB published on the IHO website, including caveats; how to increase participation level.
- IHO DCDB development of a geographic mask that filters incoming data based on MS responses.

Reception: Terrace/Chart Room



Day 2 Agenda

Updates of Current IHO CSB-related Projects cont...

Review the CSB Guidance Document 2.0.2

- Consideration of feedback comments, input and proposed actions on 3.0.0

Identify Potential Uses of CSB

- CSB from a HO perspective; how can/do HOs' use CSB? Identify examples.
- The implications for HOs with relation to CSB, data handling/QC/QA; perspectives of other IHO bodies (DQWG, NCWG, MSDIWG).
- How data can be assessed and evaluated, based on ISO19157 standard
- Development of an S-100 based Product Specification for CSB data and portrayal.
- GEBCO/Seabed 2030 uses.
- Producing a CSB White Paper, who is the target audience? Nextsteps



Day 2 & 3 Agenda

Outreach Strategy

Continue discussion on concrete actions and ways to increase data contributions and incentives on how and why mariners should become involved.

- Review Mind Map of CSB Stakeholder Sectors
 - What new sectors should we target?
 - What do they want and what do they need?
 - Identify ambassador.
 - Develop approach to each.
- Discussion of outreach and education strategies in line with GEBCO and Seabed 2030-Project activities, synergies and harmonization of approach and material?



Day 3 Agenda

Recognition Strategy

Defining the incentives level within a CSB recognition strategy for collector

Closing (Vice-chair election)

