

**International Hydrographic Organization  
Crowdsourced Bathymetry Trusted Node  
AGREEMENT**

***Terms of the Provision of Crowdsourced Bathymetry  
Data***

*FROM*

**Trusted Node Name**

***TO THE***

**International Hydrographic Organization**

**FOR INCLUSION IN THE**

**IHO Data Centre for Digital Bathymetry Archive**

**Date**

## Section 1: Introduction

This document represents the agreement that XYZ (XYZ) and the International Hydrographic Organization have reached for submitting crowdsourced bathymetry data for long-term preservation and stewardship. This document is a joint effort between XYZ and the IHO to accurately document the agreement and the expectations between the two entities.

## Section 2: Background

The International Hydrographic Organization (IHO) is an intergovernmental organization that works to ensure all the world's seas, oceans and navigable waters are surveyed and charted. Established in 1921, it coordinates the activities of national hydrographic offices and promotes uniformity in nautical charts and documents. It issues survey best practices, provides guidelines to maximize the use of hydrographic survey data and develops hydrographic capabilities in Member States.

The IHO Data Centre for Digital Bathymetry (DCDB) was established in 1990 (IHO CL 23/1990) pursuant to a proposal by the United States, to steward the worldwide collection of bathymetric data. The DCDB archives and shares, openly and without restrictions, depth data contributed by mariners. The DCDB is hosted by the United States National Oceanic and Atmospheric Administration (NOAA) National Centers for Environmental Information (NCEI) on behalf of the IHO Member States.

The IHO currently accepts CSB contributions through a network of Trusted Nodes. An IHO Trusted Node is an approved organization or individual who systematically receives CSB data collected by vessels or other platforms and delivers them to the IHO DCDB. Trusted Nodes may assist the mariner by providing access to data logging or transmission equipment, providing technical support to vessels, downloading data from data loggers, and providing the information to the DCDB. The DCDB works with each Trusted Node to standardize metadata and data formats and define data delivery requirements. This model normalizes data contributions and minimizes the requirements and effort for mariners.

[Brief description of XYZ company/organization/etc]

[Description of how data will be collected (eg: data logger, voyage data recorders (VDR), software)]

## Section 3: Purpose and Scope

This Trusted Node agreement (TN Agreement) is a signed, approved agreement for data archiving and access and becomes a reference document for XYZ and the IHO, and for implementation by the DCDB. It is a negotiated agreement between the parties indicating a common understanding of performance and intent. This TN Agreement describes XYZ's and the IHO DCDB's responsibilities in transferring, disseminating, and archiving XYZ data. It contains, or has references to, all the information needed to develop appropriate interfaces between two systems for data transfer and provides information on data access and dissemination.

## Section 4: References

The cited documents are applicable to or referenced from this TN Agreement.

#	Reference Document
1	B-12 Edition 2.0.3 Guidance on Crowdsourced Bathymetry
2	Guidance for Submitting CSB Data to the IHODCDB_v1.0

## Section 5: Contacts

### A. Trusted Node Contacts

Trusted Node Function	Trusted Node Contact
<i>Associated Provider-side function:</i> <ul style="list-style-type: none"> <li>Project Manager</li> <li>Subject Matter Expert</li> </ul>	Last Name: First Name: Organization: Position: Phone: E-mail:
<i>Associated Provider-side function:</i> <ul style="list-style-type: none"> <li>Project Manager</li> <li>Subject Matter Expert</li> <li>Dataset POC</li> </ul>	Last Name: First Name: Organization: Position: Phone: E-mail:

### B. DCDB Contacts

DCDB Function	DCDB Contact
<i>Associated DCDB-side function:</i> <ul style="list-style-type: none"> <li>Project Management</li> <li>Subject Matter Expert</li> <li>Dataset POC</li> <li>TN Agreement Author</li> </ul>	Last Name: Jencks First Name: Jennifer Organization: IHO DCDB Position: Director Phone: 303-497-6419 Email: jennifer.jencks@noaa.gov
<i>Associated DCDB-side function:</i> <ul style="list-style-type: none"> <li>Subject Matter Expert</li> <li>Dataset POC</li> <li>Integration &amp; Testing</li> <li>Data Manager</li> </ul>	Last Name: Zelenak First Name: Georgie Organization: IHO DCDB Position: CSB Data Manager Phone: 303-497-5809 Email: georgianna.zelenak@noaa.gov

## Section 6: IHO DCDB Data Archive and Services

### A. Creative Commons 1.0 Universal Public Domain Dedication (CC0)

The Trusted Node is, voluntarily and without financial compensation, providing CSB data to the IHO

DCDB under a Creative Commons 1.0 Universal public domain dedication (CC0).

The IHO DCDB intends to store the Trusted Node's data through the US National Oceanic and Atmospheric Administration's (NOAA) National Centers for Environmental Information (NCEI) in Boulder, Colorado. Furthermore, the IHO DCDB intends to publicly release the Trusted Node's Data in its original form under the CC0 public domain dedication ([creativecommons.org/publicdomain/zero/1.0/?ref=chooser-v1](https://creativecommons.org/publicdomain/zero/1.0/?ref=chooser-v1)) via interactive web map services.

In no event is the IHO DCDB liable to the Trusted Node for third-party use of Trusted Node-provided data.

*By signing this TN Agreement, the Trusted Node indicates that it has sufficient legal authority over the CSB data it provides to accept these terms.*

## **B. Data Submission**

All Trusted Nodes are requested to review the *CSB Data Submission to the IHO DCDB Guidance Document* which provides detailed information and instructions on how to document, package and submit CSB data to the IHO DCDB.

[Description of WHAT data package will consist of: geojson vs csv, uncorrected vs corrected, unprocessed vs processed, metadata content.]

Description of HOW data will be packaged and submitted to the IHO DCDB.

Description of data submission frequency: realtime, monthly, annually, etc.

Description of how DCDB will be notified that data is ready (if delivery isn't realtime).]

## **C. Data Filtering**

When CSB data has been collected within a country's jurisdiction, the IHO DCDB will redistribute the data in agreement with national legislation and caveats based on the information received by the IHO Secretariat from individual coastal states on request.

## **D. Data Access**

The DCDB map viewer ([ncei.noaa.gov/maps/iho\\_dcdb/](https://ncei.noaa.gov/maps/iho_dcdb/)) is an online tool where users can search for, identify and obtain CSB data. The map viewer contains filters that correspond to a specified time range or submitting vessel (unless the submitting vessel chooses to remain anonymous). Users can also identify data files geographically.

## **Section 7: General Provisions**

- A. This agreement is valid upon signature by both parties and remains in effect unless terminated.
- B. Either party may request termination of this agreement, which will take effect after X days.
- C. This agreement may be revised with the written agreement of both parties.

D. Information contained in Section 5 and Section 6(b) are considered to be sensitive, and will not be released publicly, to the extent permissible according to law and IHO Basic Documents.

Name, Title

Date

XYZ

Luigi Sinapi, Director  
International Hydrographic Organization

Date