



# Instructions for submission of bathymetric data and metadata to the Danish Geodata Agency

The Danish Geodata Agency encourages communication during any stage of the survey. If you have any questions regarding the submission, you are welcomed to [contact us](#). We recommend you compile the information and metadata as early as possible, and bring this document on board during the survey.

In case you wish the bathymetric data to be eligible for charts, the survey need to fulfill the requirements of the IHO S-44 version 6.0 standard. Please contact [dybdataforvaltning@gst.dk](mailto:dybdataforvaltning@gst.dk) regarding instructions and for current requirements.

## Requirements for data submission:

- The submitted material must fully describe the acquisition, processing and quality control of the submitted survey – If an IHO order is assigned to the submitted survey, supporting documentation and analysis must be provided.
- The full bathymetric dataset must be cleaned for spikes and corrected for water level effects before it is submitted to the Danish Geodata Agency.
- For **each survey line**, data must be submitted as a **cleaned point cloud**, i.e. **not gridded data**, in **survey data format**, e.g. .fau – alternatively ascii .xyz format. If data have been post-processed in the fau format, this format is preferred.
- A polygon covering the survey must be provided. Geopackage or shapefile is preferable.
- If ancillary data has been collected during the survey, e.g. sound velocity profiles, tide measurements, these must also be submitted.
- If any significant features or dangers to navigation have been found during or after the survey, please note the position(s) and information in the provided [table](#).

For coordinate reference systems, the Danish Geodata Agency refers to the official Danish reference frame - see <https://eng.sdfi.dk/products-and-services/geodesy-and-coordinate-systems>

Data has to be submitted through The Danish Geodata Agency's FTP service. [Contact us](#) to receive the link. In summary, the submission must include:

- [Survey reports](#) and supporting documentation
- For each [survey line](#) a cleaned point cloud in survey data format
- [Ancillary data](#) e.g. tide, sound velocity etc.
- Filled [metadata tables](#) on the following pages.
- A survey polygon.
- The Workzone ID for the relevant permit.

## Danish Geodata Agency

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## Metadata

NB! No fields may be left blank

### Survey information

Contact person (Name + Email)	
Company/Organization	
Survey type (multibeam, singlebeam, ...)	
Intention of survey (research, dredging, ...)	
Area/location	
Start date of survey	
End date of survey	
Horizontal datum and projection (EPSG code)	
Vertical datum	
Estimated IHO category (if estimated)	
Number of cleaned point cloud files	
Processing software (name and version)	
Has the data been interpolated?	



### Vessel and equipment

Name of vessel	
Echosounder (name and type)	
Echosounder frequency during surveying	
Sound velocity profiler	
Sound velocity sensor at transducer's head	
Inertial Navigation System	
Positioning system	
Method of positioning correction	
Geoid model	
Acquisition software (name and version)	
Tide gauges	
Tide gauges locations – lat, long	
Other acquisition-related equipment (side scan sonar, sub-bottom profiler, ...)	
Other remarks	



**Ancillary files** (number of files and filename)

Tide files (filename)	
Sound velocity profile files (amount)	
Survey polygon, .gpkg or .shp (filename)	
Other	

**Survey reports must contain** (may be submitted as a single document or individually)

Installation offsets and draft report (filename)	
Calibration report (filename)	
Acquisition report (filename)	
Post-processing report (filename)	



## Identified significant features / dangers to navigation

Position (lat, long)	Description of feature / danger	Reported to DMA (Yes/No)