

**Description – data sets in the
scope of the Net Zero Industry Act**

Date:
2025-12-18

Dataset: Sub-Bottom Echo Sounder

Version History

This section lists the changes in the dataset or description.

Change Log

Document Version	Dataset Version	Approved data	Change
1.0	1.0	2025-12-18	Original version

Abstract

The dataset contains sub-bottom echo sounder data in processed and interpreted format. The data is collected during the years 2023, 2024 and 2025. The survey covers the sea south and west of the coast of Skåne out to the boarder for the Swedish exclusive economic zone. A representative selection of the data collected during 2023 and 2024 has been processed and interpreted into isopachs grids and maps. Thus, describing the extent and thickness of each of the sediment layers, visible with the sensor, in the area.

The processed and interpreted dataset is presented in the resolution 300x300 m based on the dissemination permit granted by the Swedish Maritime Administration (SGU ref. no.: 316-566/2025, 316-567/2025). A selection has been made to make data available that is interesting for the exploration of conditions for Carbon Capture and Storage (CCS) in the bedrock. Data is made available in accordance with the EU Net Zero Industry Act (NZIA), where the dissemination of data is not hindered by the Geographic Information Protection Act.

The types of information delivered in an area may vary and potentially be supplemented retroactively.

Information per sub-area

Area	Raw data	Tracklines	Processed (filtered) data	Isopachs		
				Contour	Grid XYZ	Grid Geotiff
sbp_skane_marine (Skane)	No	Yes	No	Yes	Yes	Yes

Licence	CCO 1.0 universell
Coordinate System (storage)	SWEREF99TM (EPSG:3006)

Distribution

The dataset is provided via download of pre-packaged files (bulk download) in several different formats depending on the information type. Sediment isopachs grids is delivered in GeoTIFF-format and XYZ (ASCII comma-separated values) with contours in dxf-format. Tracklines are delivered in OGC GeoPackage-Format.

Area	URL
sbp_skane_marine (Skane)	https://resource.sgu.se/data/datasets/nettonollteknik/sedimentekolod/sbp_skane_marine.zip

Content of delivery

When downloading the dataset as a zip file, data, product description, and simple symbolization for presentation in ArcGIS Pro and QGIS are included.

Files included

File name	File format	Content
sedimentekolod-beskrivning	PDF	Description (Swedish version)
subbottom-echosounder-description	PDF	Description (this document)
1_Tracklines/<area>_tracklines.gpkg	OGC GeoPackage	<area>_tracklines (lines)
1_Tracklines/<area>_tracklines.lyrx	ArcGIS Pro layer file	Symbology for ArcGIS Pro
1_Tracklines/<area>_tracklines.qlr	QGIS layer file	Symbology for QGIS
2_Isopach/1_Contours/<area>_isopach_<unit>_300m_contour2m.dxf	DXF	Contour (2 m) isopach grid 300x300 m
2_Isopach/2_Grid_XYZ/<area>_isopach_<unit>_300m.csv	Comma-separated value ASCII	Isopach grid 300x300m
2_Isopach/3_Embedded_Value_Grid/<area>_isopach_<enhet>_300m.csv	GeoTiff (32-bit, embedded value)	Isopach grid 300x300m
2_Isopach/3_Embedded_Value_Grid/<area>_isopach_geotiff.lyrx	ArcGIS Pro layer file	Symbology for ArcGIS Pro
2_Isopach/3_Embedded_Value_Grid/<area>_isopach_geotiff.lyrx	QGIS layer file	Symbology for QGIS

Maintenance

Further processing and interpretation of data may be done upon extension of the CCS assignment, on the already collected data as a supplement to additional material for carbon storage in the area.

Data Quality

The data quality is generally good and is positioned using RTK. However, since the sensor was not the primary one during measurement, the quality varies. As large parts of the data collection have been done in conjunction with seismic data collection, there is some interference noise. The presentation of interpreted data is adapted highest amount of interpretation of available data.

Tables Included

Attribute tables in GeoPackage are described below.

Tracklines

Navigation data with lines where measurements and observations were made.

Table Name: <area>_tracklines

Kolumn	Beskrivning	Kommentar
objectid	Primary key	Generated serial number (not persistent)
line	Identifier for survey line	
geom_length	Length of geometry in meters	
geom	Geometry	Line geometry