

# HELCOM Metadata catalogue

## Radioactive substances - Cesium-137 in seawater data HOLAS 3

This dataset represents the underlying seawater data on core indicator Radioactive substances: Cesium-137 in-fish-and-surface-seawater. The core indicator evaluates the state of the environment using the concentration of the radioactive isotope cesium-137 (137Cs) in herring, in flatfish and in surface waters. Quantitative thresholds are used to evaluate if core indicators Achieve or Fail Good status or if the status is Not assessed. Good status is achieved when concentrations reach levels measured before the Chernobyl accident in 1986 when the biota of the Baltic Sea received the most significant contribution to their level of artificial radionuclides, predominantly in the form of 137Cs.

This dataset displays the result of the indicator in HELCOM Assessment Scale 2 (Division of the Baltic Sea into 17 sub-basins).

Attribute information:

"KEY" = MORS Database unique sample identifier

"COUNTRY" = Code for country of observation

"YEAR" = Year of observation

"STATION" = Unique text that identifies the station

"TDEPTH" = Bottom depth at sampling site (m)

"SDEPTH" = Sampling depth (m)

"ASSESSMENT" = Name of the HELCOM scale 2 assessment unit (subbasin)

"NUCLIDE" = Nuclide measured

"VALUE\_Bq\_m" = Value of measurement in Bq/m3

## Simple

<b>Date (Creation)</b>	2023-03-23
<b>Unique resource identifier</b>	<a href="https://metadata.helcom.fi/geonetwork/srv/eng/catalog_search#/metadata/f5cbcf53-96dd-49a3-a01a-346ab09db758">https://metadata.helcom.fi/geonetwork/srv/eng/catalog_search#/metadata/f5cbcf53-96dd-49a3-a01a-346ab09db758</a>
<b>pointOfContact</b> <i>HELCOM Secretariat</i>	
<b>GEMET - INSPIRE themes, version 1.0</b>	<ul style="list-style-type: none"><li>Oceanographic geographical features</li></ul>
<b>GEMET</b>	<ul style="list-style-type: none"><li>sea water</li></ul>
<b>Keywords</b>	<ul style="list-style-type: none"><li>MADS</li><li>HOLAS3</li><li>Core indicator</li></ul>
<b>Use constraints</b>	Other restrictions
<b>Other constraints</b>	Use constraints: Data can be used freely given that the source is cited (following creative commons license CC-BY). The source should be cited as: "HELCOM HOLAS 3 Dataset (2023)"
<b>Access constraints</b>	Other restrictions
<b>Other constraints</b>	<a href="#">Access constraints: No limitations on public access.</a>
<b>Spatial representation type</b>	Vector
<b>Metadata language</b>	English

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**Topic category**

- Environment



<b>Begin date</b>	2016-01-01 Unknown
<b>End date</b>	2021-12-31 Now
<b>Unique resource identifier</b>	<a href="#">EPSG:3035</a>
<b>Distribution format</b>	<ul style="list-style-type: none"> <li>• ESRI Shapefile ( 1.0 )</li> </ul>
<b>OnLine resource</b>	<a href="#">Download Radioactive substances - Cesium-137 in seawater data HOLAS 3</a> ( WWW:LINK-1.0-http--link )
<b>OnLine resource</b>	<a href="#">View Radioactive substances - Cesium-137 in seawater data HOLAS 3</a> ( WWW:LINK-1.0-http--link )
<b>Hierarchy level</b>	Dataset

## Conformance result

<b>Date (Publication)</b>	2010-12-08
<b>Statement</b>	<p>The pre-Chernobyl values used to derive the threshold value have been calculated based on data in the HELCOM MORS database. The data used for defining the threshold value for 137Cs concentrations in herring, flatfish (plaice and flounder) and surface waters were collected between 1984 and 1985. The mean pre-Chernobyl 137Cs concentrations have been used as threshold values.</p> <p>The evaluation of whether the threshold is achieved or not is carried out by calculating the mean value for all samples during the assessed year in each assessment unit and comparing this against the threshold values.</p> <p>Data covers most of the Baltic Sea. Data of each matrix (herring, plaice and flounder and sea water) have been averaged by sub-basin and by year. The data is collected by national authorities and reported annually to the HELCOM MORS Database. In addition to national quality assurance procedures, manual quality assurance is applied to the reported data and data entries are verified annually by the HELCOM MORS Expert Group.</p> <p>Additional information:</p> <p><a href="http://www.helcom.fi/baltic-sea-trends/indicators/radioactive-substances-caesium-137-in-fish-and-surface-seawater/">http://www.helcom.fi/baltic-sea-trends/indicators/radioactive-substances-caesium-137-in-fish-and-surface-seawater/</a></p>
<b>File identifier</b>	f5cbcf53-96dd-49a3-a01a-346ab09db758 <a href="#">XML</a>
<b>Metadata language</b>	English
<b>Character set</b>	UTF8
<b>Hierarchy level</b>	Dataset
<b>Date stamp</b>	2023-04-14T13:43:35

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**Overviews**

**Provided by**