# Radioactive substances Cesium 137 in fish data

This dataset represents the underlying biota data on core indicator Radioactive substances: Cesium-137 in herring and Radioactive substances: Cesium-137 in flatfish. The core indicator evaluates the state of the environment using the concentration of the radioactive isotope cesium-137 (137Cs) in flatfish. Quantitative thresholds are used to evaluate if core indicators status is Good, Not good or 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" = Country of observation

"BASINNAME" = Name of subbasin

"Year" = Year of observation

"STATION" = Name of station

"LATITUDE" = Latitude of station

"LONGITUDE" = Longitude of station

"SPECIES" = Species of measurement

"TISSUE_DES" = Part of fish used for the measurement

"NUCLIDE" = Nuclide measured

"VALUE_Bq_k" = Value of measurement in Bq/kg

## Simple

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| **Date (Publication)** | 2017-06-30 |
| **Unique resource identifier** | https://metadata.helcom.fi/geonetwork/srv/eng/catalog.search#/metadata/c11ab7b0-4f48-4688-8097-ec243f0db039 |
| **pointOfContact**<br>*HELCOM Secretariat* | |
| **GEMET - INSPIRE themes, version 1.0** | • Oceanographic geographical features |
| **GEMET** | • radioactivity<br>• fish |
| **Keywords** | • MADS<br>• HOLAS2<br>• Core indicator data |
| **Use constraints** | Other restrictions |
| **Other constraints** | Use constraints: The data and resulting data products (tables, figures and maps) available on the indicator web pages can be used freely given that the source is cited. The indicator should be cited as following:<br><br>HELCOM (2017) Radioactive substances: Cesium-137 in fish and surface water. HELCOM core indicator report. Online. [Date Viewed], [Web link]. |

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| **Access constraints** | Other restrictions |
| **Other constraints** | Access constraints: No limitations on public access. |
| **Spatial representation type** | Vector |
| **Metadata language** | English |
| **Topic category** | • Environment |

| 66.22 | N | 52.94 | S | 31.43 | E | 9.55 | W |
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| **Begin date** | 2011-01-01 |
| **End date** | 2015-12-31 |
| **Unique resource identifier** | EPSG:3035 |
| **Distribution format** | • ESRI Shapefile ( 1.0 ) |
| **OnLine resource** | Download dataset ( WWW:LINK-1.0-http--link ) |
| **OnLine resource** | Open in Map Viewer ( WWW:LINK-1.0-http--link ) |
| **Hierarchy level** | Dataset |

## Conformance result

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| **Date (Publication)** | 2010-12-08 |

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| **Statement** | 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.<br><br>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.<br><br>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.<br><br>Additional info: http://helcom.fi/baltic-sea-trends/indicators/radioactive-substances-cesium-137-in-fish-and-surface-waters/<br><br>Link to Core indicator metadata: http://metadata.helcom.fi/geonetwork/srv/eng/catalog.search#/metadata/2bb67247-895d-4b04-9924-6c1ded4eeebf<br><br>Link to Core indicator metadata: http://metadata.helcom.fi/geonetwork/srv/eng/catalog.search#/metadata/f48bdd7a-0f1a-4afb-952f-ef76c0516f69 |
| **File identifier** | c11ab7b0-4f48-4688-8097-ec243f0db039 XML |
| **Metadata language** | English |
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| **Character set** | UTF8 |
| **Hierarchy level** | Dataset |
| **Date stamp** | 2021-09-09T12:01:05 |

**pointOfContact**
*HELCOM Secretariat*

## Overviews

## Provided by