Radioactive substances Cesium 137 in seawater

This core indicator evaluates the state of the environment using the concentration of the radioactive isotope cesium-137 (137Cs) in seawater. 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:

“SB_Code” = Code of the Helcom subbasin

"Name" = Name of the Helcom scale 2 assessment unit

"AREAKM2" = Area of the Helcom scale 2 assessment unit

HELCOM_ID = Helcom id of the Helcom scale 2 assessment unit

Indicator = name of the indicator

Threshold = Threshold value for this indicator

"I_value" = Value for the Helcom scale 2 assessment unit

Status = Status of the indicator (“Good”, “Not good” or “Not assessed”)

Simple

Date (Publication)	2017-06-30
Unique resource identifier	https://metadata.helcom.fi/geonetwork/srv/eng/catalog.search#/metadata/1a7810b7-5c1a-445b-9d9b-0af57e4c8734
pointOfContact *HELCOM Secretariat*	
GEMET - INSPIRE themes, version 1.0	• Oceanographic geographical features
GEMET	• radioactivity • fish
Keywords	• MADS • HOLAS2 • Core indicator
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: HELCOM (2017) Radioactive substances: Cesium-137 in fish and surface water. HELCOM core indicator report. Online. [Date Viewed], [Web link].
Access constraints	Other restrictions
Other constraints	Access constraints: No limitations on public access.
Spatial representation type	Vector

Metadata language	English
Topic category	• Environment

65.91	N	53.61	S	30.25	E	8.19	W



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

Date (Publication)	2010-12-08

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. 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. 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. Additional info: http://helcom.fi/baltic-sea-trends/indicators/radioactive-substances-cesium-137-in-fish-and-surface-waters/ Link to metadata of dataset used for indicator calculation: http://metadata.helcom.fi/geonetwork/srv/eng/catalog.search#/metadata/cada09fd-20c9-4c1c-9b25-4b6b29b92608
File identifier	1a7810b7-5c1a-445b-9d9b-0af57e4c8734 XML
Metadata language	English
Character set	UTF8
Hierarchy level	Dataset
Date stamp	2021-09-09T12:03:15

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Overviews

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