TBT and imposex biota data

This dataset represents the underlying biota data on core indicator TBT and imposex. The core indicator evaluates the status of the marine environment based on concentrations of the tributyltin (TBT) and its breakdown products dibutyltin (DBT) and monobutyltin (MBT) in the Baltic Sea; in water, biota (mussels, marine gastropods) and sediments. Imposex effects of TBT on marine gastropods are used as another source of data on TBT. Quantitative thresholds are used to evaluate if core indicators status is Good, Not good or Not assessed. Good status is achieved when the concentrations of TBT are below the threshold value.

This dataset displays the result of the indicator in HELCOM Assessment Scale 4 (Division of the Baltic Sea into 17 sub-basins and further division into coastal and off-shore areas and division of the coastal areas by WFD water types or water bodies).

Attribute information:

region = MIME subregion

country = country

station = Unique text that identifies the station

stationNam = name for the station

latitude = latitude coordinate of station

longitude = longitude coordinate of station

determinand = determinand

detGroup = the grouping of determinands used to display the results

species = species of measurment

shape = shape used to map assessment results

colour = colour used to map assessment results

l4area = Helcom assessment unit

MSTAT = Type of monitoring station

WLTYP = Water and Land Station Type

fileGroup = used to find the url of the graphs associated with the timeseries

fileSuffix = used to find the url of the graphs associated with the timeseries

filePrefix = used to find the url of the graphs associated with the timeseries

nyall = total number of years of data

nyfit = number of years of data used in the assessment

nypos = number of years with at least one measurement above the limit of detection

lastyear = most recent year of data

pnonlin = the significance of the nonlinear component of the trend (if fitted)

pltrend = the significance of the linear component of the trend (if fitted)

ltrend = annual ‘linear’ change over the whole time series; for contaminants, this is the annual change in log-concentration multiplied by 100, which is approximately the annual percentage change in concentration

prtrend = the significance of the change over the most recent 20 years; for the assessment conducted in November 2016 and published in June 2017, this is the period 1996-2015.

rtrend = annual ‘linear’ change over the most recent 20 years

dtrend = for contaminants, (approximately) the annual percentage change in concentration that will be detected with 90% power with ten years of annual monitoring

meanLY = fitted value in last monitoring year

clLY = upper one-sided 95% confidence limit on fitted value in last monitoring year

HQS = Threshold value

HQSdiff = difference between clLY and HQS

HQSachieve = the year when the mean value is projected to be below the HQS, given current trends (with 3000 indicating it is a very long way off!)

HQSbelow = whether the mean value in the last monitoring year is significantly below HQS

class = imposex class

Simple

Date (Publication)	2017-06-30
Unique resource identifier	https://metadata.helcom.fi/geonetwork/srv/eng/catalog.search#/metadata/b7887043-50de-440f-936d-e0fb108e65eb

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GEMET - INSPIRE themes, version 1.0	• Oceanographic geographical features
GEMET	• hazardous substance
Keywords	• MADS • HOLAS2 • 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: HELCOM (2017) TBT and imposex. 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

59.69	N	55.00	S	18.96	E	10.59	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 indicator is based on data held in the HELCOM COMBINE database hosted at the International Council for the Exploration of the Seas (ICES). To evaluate contamination status of Baltic Sea, the ratio of concentration of TBT in the biotic and abiotic elements of marine environment to the specified concentration (threshold) levels are used. Data are extracted from the HELCOM COMBINE database as specified in the extraction table to ensure that the values are from the appropriate measurement matrices (Assessment protocol table 1). The confidence of the indicator evaluation is high in the Kattegat and Belt Sea/The sound area since the data on TBT concentrations and imposex bivalves, sediments and marine gastropods is spatially adequate and time series are available for several stations. In the rest of the Baltic Sea, confidence is low due to very limited data availability. Additional information: http://helcom.fi/baltic-sea-trends/indicators/ Link to Core indicator metadata: http://metadata.helcom.fi/geonetwork/srv/eng/catalog.search#/metadata/d67c8752-3f02-44bc-8b1c-9b8365dc25b3
File identifier	b7887043-50de-440f-936d-e0fb108e65eb XML
Metadata language	English
Character set	UTF8
Hierarchy level	Dataset
Date stamp	2021-09-09T12:00:18

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Overviews

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