EEA geospatial data catalogue

Assessment of contamination status using CHASE+ excluding mercury (Hg) and PBDEs, Mar. 2019

This dataset presents the resulting assessment grid (based on the EEA reference grid) with the classification of chemical status of the transitional, coastal and marine waters in the context of the Water Framework Directive (WFD) and the Marine Strategy Framework Directive (MSFD). This classification has been performed using the CHASE+ tool, with classifications of the matrices 'water', 'sediment' and 'biota' and indicators of 'biological effects', as well as an integrated classification of chemical status, combining results of all matrices. The chemical status is evaluated in five classes, where NPAhigh and NPAgood are recognised as 'non-problem areas' and PAmoderate, PApoor and PAbad are recognised as 'problem areas'. This is the assessment made excluding concentrations of mercury (Hg) and polybrominated diphenyl ethers (PBDEs)

The overall area of interest used is based on the marine regions and subregions under the Marine Strategy Framework Directive. Additionally, Norwegian (Barent Sea and Norwegian Sea) and Icelandic waters ('Iceland Sea') have been added (see Surrounding seas of Europe). Note that within the North East Atlantic region only the subregions within EEZ boundaries (~200 nm) have been included.

This dataset underpins the findings and cartographic representations published in the report "Contaminants in Europe's Seas" (EEA, 2019): https://www.eea.europa.eu/publications/contaminants-in-europes-seas .

Simple

Date (Creation)	2019-03-06
Date (Publication)	2019-03-21
Edition	01.00
Citation identifier	eea_v_3035_20_km_chase-exclhgpbdes_p_2009-2016_v01_r00
Citation identifier	DAT-211-en

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No information provided.

Maintenance and update frequency	As needed
GEMET - INSPIRE themes, version 1.0	• Oceanographic geographical features
Keywords	
Keywords	
GEMET	• contamination • marine biota • environmental quality • good chemical status • sea • environmentally dangerous substance • sea water • indicator-based assessment • marine sediment

Continents, countries, sea regions of the world.	• Iceland Sea • Barents Sea • Baltic Sea • English Channel • Adriatic Sea • Celtic Sea • Black Sea • Mediterranean Sea • Kattegat • Bay of Biscay • Norwegian Sea • Aegean Sea • Ionian Sea • North Sea
Spatial scope	• European
EEA Management Plan	• 2018 1.6.2
EEA topics	• Chemicals • Seas and coasts • Water • Biodiversity • Pollution
Use limitation	EEA standard re-use policy: unless otherwise indicated, re-use of content on the EEA website for commercial or non-commercial purposes is permitted free of charge, provided that the source is acknowledged (http://www.eea.europa.eu/legal/copyright). Copyright holder: European Environment Agency (EEA).
Access constraints	Other restrictions
Other constraints	no limitations to public access
Aggregate Datasetindentifier	3feffd63-ab0b-4f03-84e8-b2c324c93bbe
Association Type	Cross reference
Aggregate Datasetindentifier	7c66cfd5-4246-4b9d-86af-624950aa49d4
Association Type	Cross reference
Spatial representation type	Vector
Distance	20 km
Distance	100 km
Language of dataset	English
Topic category	• Environment

84.64	N	22.25	S	92.08	E	-79.06	W

Begin date	2009-01-01
End date	2016-12-31
Coordinate reference system identifier	EPSG:3035
Distribution format	• SHP ( )

OnLine resource

Protocol	Linkage	Name
EEA:FILEPATH	https://sdi.eea.europa.eu/webdav/datastore/public/eea_v_3035_20_km_chase-exclhgpbdes_p_2009-2016_v01_r00/CHASE_results_20190306_excl_HG_PBDEs.shp	
WWW:URL	https://sdi.eea.europa.eu/data/fc018b57-05ba-4692-b96b-809983a3a983	Direct download
ESRI:REST	https://water.discomap.eea.europa.eu/arcgis/rest/services/Marine/CHASE_contaminants_excluding_HG_PBDEs/MapServer	
OGC:WMS	https://water.discomap.eea.europa.eu/arcgis/services/Marine/CHASE_contaminants_excluding_HG_PBDEs/MapServer/WMSServer?request=GetCapabilities&service=WMS	
WWW:DOWNLOAD-1.0-http--download	https://sdi.eea.europa.eu/catalogue/srv/api/records/49eb412e-3002-492c-8323-ab5cac07fc40/attachments/Contaminants-in-Europes-seas-online-material-INPUT.xlsx	Contaminants in Europes seas INPUT material
WWW:DOWNLOAD-1.0-http--download	https://sdi.eea.europa.eu/catalogue/srv/api/records/49eb412e-3002-492c-8323-ab5cac07fc40/attachments/Contaminants-in-Europes-seas-online-material-RESULTS-final.xlsx	Contaminants in Europes seas RESULTS-material

Hierarchy level	Dataset

Conformance result

Date (Publication)	2010-12-08
Explanation	See the referenced specification

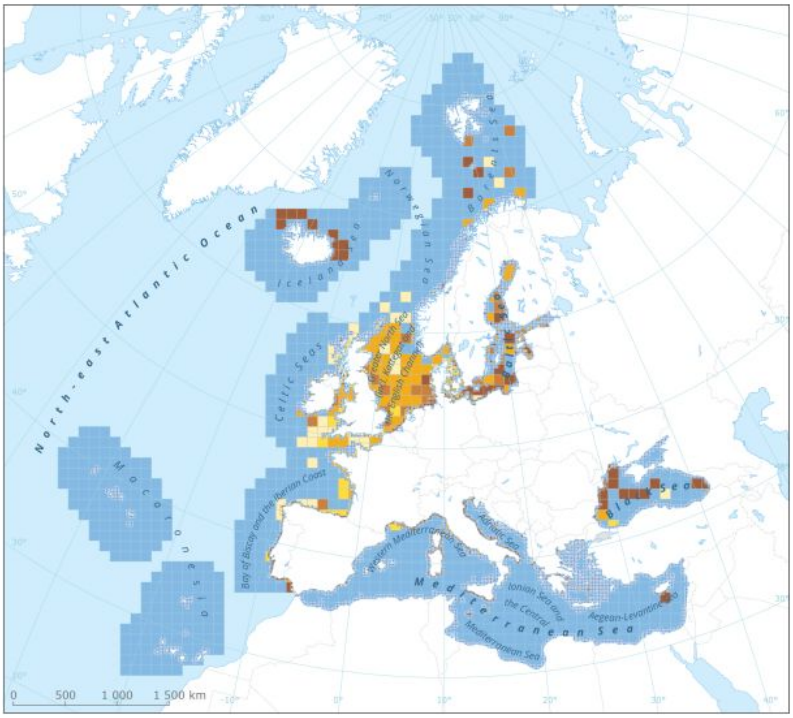
Statement	This assessment is based on data on contaminants, monitored in transitional, coastal and marine waters in the context of the WFD and the MSFD. The part of reported data from water, sediment and biota, as well as the information about biological effects, are derived from the DOME data portal of the International Council for the Exploration of the Sea (ICES). Other key data sources are data reported under the European Environment Information and Observation Network (Eionet), EMODnet Chemistry (the Baltic Sea and the Black Sea) and the EMBLAS project (Black Sea). In addition, France and Portugal have made new data sets available. For this analysis, Europe's seas were divided into grid cells of 20 × 20 km2 in coastal waters and 100 × 100 km2 in offshore areas. The CHASE+ methodology is a simple five-step procedure applied in every assessment unit. The five steps are: Step (1): substances/indicators are grouped into four categories (C1: water; C2: sediment; C3: biota, C4: biological effects). Step (2): for each individual substance /indicator, a contaminant ratio (CR = Cstatus/Cthreshold) is calculated. Step (3): for categories C1-3, a contamination score (CS) is

	calculated. Step (4): each category is subdivided into five status classes with class boundaries: 0.0-0.5 (NPAhigh), 0.5-1.0 (NPAgood), 1.0-5.0 (PAmoderate), 5.0-10.0 (PApoor) and > 10.0 (PAbad). Step (5): category-specific classifications are subsequently combined for each assessment unit into an integrated classification of 'non-problem area' (NPA) or 'problem area' (PA) by using the worst classification — the 'one-out, all-out' principle. Based on the EEA reference grid, two grids have been developed covering the Marine Regions and Sub-regions of Europe. The first grid 100x100 km cell is used in offshore areas (> 20 km from the coastline); the second grid 20x20 km covers the coastal areas (<= 20 km from the coastline). The grid sizes were chosen after an evaluation of data availability versus the need for sufficient detail in the resulting assessment. Each cell in the grids has a unique identification defined from the lower left UTM coordinates. The CHASE+ results are associated to the unique cells in the grids. More information can be found in the report "Contaminants in Europe's seas" and online material on https://www.eea.europa.eu/publications/contaminants-in-europes-seas/ .
Source	• EEA marine assessment grid, Jan. 2017

Metadata

File identifier	fc018b57-05ba-4692-b96b-809983a3a983 XML
Metadata language	English
Character set	UTF8
Hierarchy level	Dataset
Date stamp	2023-03-07T16:49:54.368Z
Metadata standard name	ISO 19115/19139
Metadata standard version	1.0
Metadata author	**Organisation name** / **Individual name** / **Electronic mail address** / **Website** / **Role** European Environment Agency / / sdi@eea.europa.eu / / Point of contact

Overviews



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