EEA geospatial data catalogue

Assessment of contamination status of sediments using CHASE+, Mar. 2019

This data set 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), providing a mapping of contamination 'problem areas' and 'non-problem areas' based on measurements in the matrix "sediments".

This classification has been performed using the CHASE+ tool, with classifications of the sediments matrix. 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'.

Most countries in Europe include marine sediments in long-term monitoring activities. Consequently, the data coverage is good, especially in southern parts of the Baltic Sea, the North Sea, the Celtic Sea, the Bay of Biscay, western parts of the Black Sea and the coastal waters of France, Italy and Portugal.The number of assessment units monitored and classified in the North-East Atlantic Ocean is 511. In the Mediterranean Sea, the number of assessment units is 153. Baltic Sea sediments are monitored on 97 assessment units while only 19 areas are assessed in the Black Sea.

This data set underpins the findings and cartographic representations published in the EEA report "Contaminants in Europe's seas" (No 25/2018). See the mentioned report for further information as well as examples of classification excluding specific groups of substances(e.g. metals, PBDEs).

Simple

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No information provided.

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GEMET - INSPIRE themes, version 1.0	• Sea regions • Oceanographic geographical features
Keywords	
Keywords	

GEMET	• marine biota • aquatic environment • sediment • sea • environmental quality • marine ecosystem • good chemical status • sea water • ocean • indicator-based assessment • environment • contamination
Continents, countries, sea regions of the world.	• Mediterranean Sea • Bay of Biscay • Kattegat • English Channel • North Sea • Ionian Sea • Norwegian Sea • Black Sea • Barents Sea • Adriatic Sea • Celtic Sea • Baltic Sea
Spatial scope	• European
EEA Management Plan	• 2018 1.6.2
EEA topics	• Chemicals • Seas and coasts • Water • Biodiversity • Pollution
Access constraints	Other restrictions
Other constraints	no limitations to public access
Use constraints	Other restrictions
Other constraints	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).
Aggregate Datasetindentifier	701f09f3-8e94-4a6a-8136-0897111b74cb
Association Type	Cross reference

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Association Type	Cross reference
Spatial representation type	Vector
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Distance	100 km
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OnLine resource

No information provided.

OnLine resource	**Protocol**	**Linkage**	**Name**
	WWW:LINK-1.0-http--link	https://www.eea.europa.eu/publications/contaminants-in-europes-seas	Contaminants in Europe's seas

OnLine resource	**Protocol**	**Linkage**	**Name**
	ESRI:REST	https://marine.discomap.eea.europa.eu/arcgis/rest/services/Marine/CHASE_contaminants_Sediments/MapServer	CHASE based classification of contaminant status of Sediments
	OGC:WMS	https://marine.discomap.eea.europa.eu/arcgis/services/Marine/CHASE_contaminants_Sediments/MapServer/WMSServer?request=GetCapabilities&service=WMS	

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. 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. For 'sediments', a contaminant ratio (CR = Cstatus/Cthreshold) and score (CS) are calculated. The values are then 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). 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

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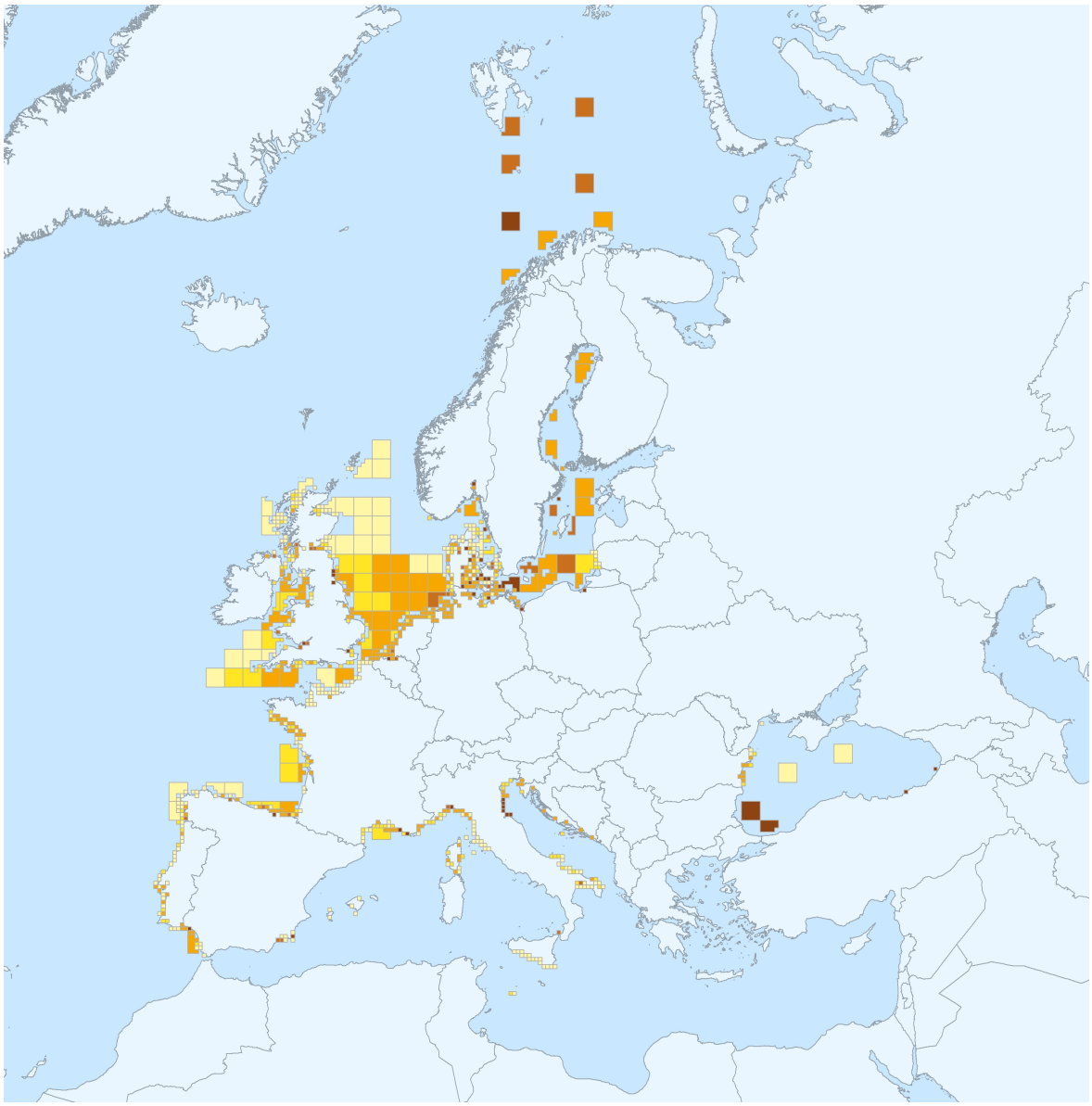
Overviews



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