EEA geospatial data catalogue

Assessment of contamination status of biota 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), with a mapping of contamination 'problem areas' and 'non-problem areas' based on measurements in the matrix 'biota'.

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

Monitoring and assessment for the matrix 'biota' has been carried out in the North-East Atlantic Ocean (482 assessment units), Baltic sea (198 assessment units), Mediterranean Sea (161 assessment units) and Black sea (12 assessment units).

This data set underpins the findings and cartographic representations published in the EEA report "Contaminants in Europe's seas" (No 25/2018): https://www.eea.europa.eu/publications/contaminants-in-europes-seas. 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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Point of contact

Organisation name	Individual name	Electronic mail address	Website	Role
European Environment Agency		sdi@eea.europa.eu	https://www.eea.europa.eu	Point of contact
European Environment Agency		sdi@eea.europa.eu	https://www.eea.europa.eu	Custodian

Point of contact

No information provided.

Maintenance and update frequency	As needed
GEMET - INSPIRE themes, version 1.0	• Oceanographic geographical features • Sea regions
Keywords	
Keywords	
GEMET	• environment • marine biology • aquatic environment • contamination • good chemical status • sea water

	• sea • marine ecosystem • indicator-based assessment • marine biota • ocean • environmental quality
Continents, countries, sea regions of the world.	• Norwegian Sea • North Sea • Ionian Sea • Kattegat • Bay of Biscay • Baltic Sea • Mediterranean Sea • Black Sea • Celtic Sea • Barents Sea • English Channel • Adriatic Sea • Iceland 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	e542e9a1-715a-48e2-8c6c-d8a30541ca93
Association Type	Cross reference
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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 • Oceans

78.32	N	34.54	S	42.01	E	-28.60	W

Begin date	2009-01-01
End date	2016-12-31
Coordinate reference system identifier	EPSG:3857
Distribution format	• SHP ( )

OnLine resource

Protocol	Linkage	Name
EEA:FILEPATH	https://sdi.eea.europa.eu/webdav/datastore/public/eea_v_3857_20_km_chase-biota_p_2009-2016_v01_r00/CHASE_Contaminants_biota_WGS84.shp	
WWW:URL	https://sdi.eea.europa.eu/data/dfe9061b-84ad-4ef1-ba83-519ab61ebb40	Direct download
WWW:LINK-1.0-http--link	https://www.eea.europa.eu/publications/contaminants-in-europes-seas	Contaminants in Europe's seas
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

OnLine resource

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

Hierarchy level	Dataset

Conformance result

Date (Publication)	
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 'biota', 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

Metadata

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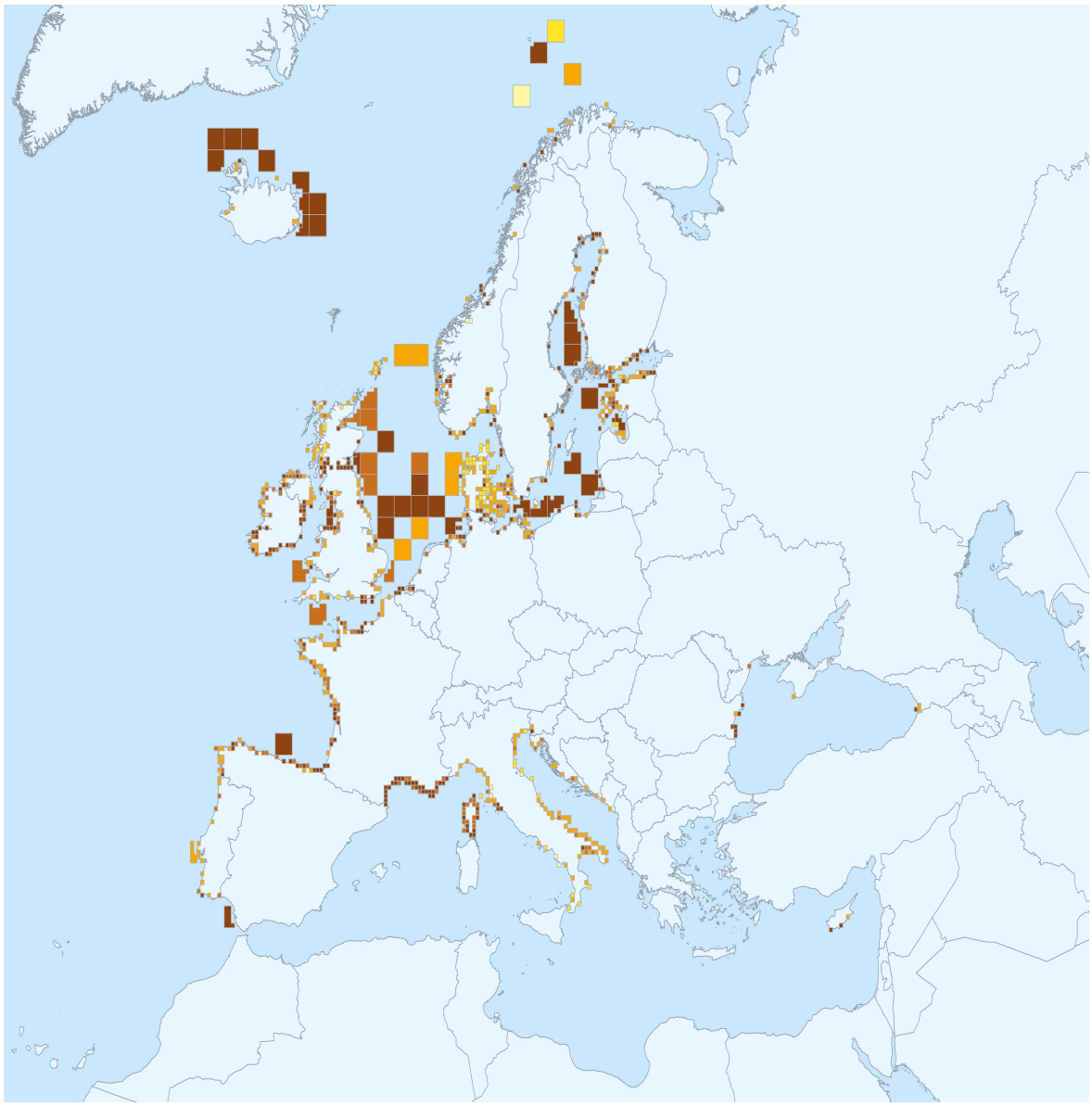
Overviews



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