

Assessment of contamination status using CHASE+, 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'.

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

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Point of contact	<table border="1"> <thead> <tr> <th>Organisation name</th> <th>Individual name</th> <th>Electronic mail address</th> <th>Website</th> <th>Role</th> </tr> </thead> <tbody> <tr> <td>European Environment Agency</td> <td></td> <td>sdi@eea.europa.eu</td> <td>http://www.eea.europa.eu</td> <td>Point of contact</td> </tr> <tr> <td>European Environment Agency</td> <td></td> <td>sdi@eea.europa.eu</td> <td></td> <td>Custodian</td> </tr> </tbody> </table>	Organisation name	Individual name	Electronic mail address	Website	Role	European Environment Agency		sdi@eea.europa.eu	http://www.eea.europa.eu	Point of contact	European Environment Agency		sdi@eea.europa.eu		Custodian		
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Point of contact

No information provided.

Maintenance and update frequency	As needed
GEMET - INSPIRE themes, version 1.0	<ul style="list-style-type: none"> Oceanographic geographical features
Keywords	
Keywords	
GEMET	<ul style="list-style-type: none"> marine biota sea water indicator-based assessment environmentally dangerous substance marine sediment good chemical status sea environmental quality contamination

Continents, countries, sea regions of the world.	<ul style="list-style-type: none"> • English Channel • Bay of Biscay • Black Sea • Norwegian Sea • Iceland Sea • Aegean Sea • Celtic Sea • Ionian Sea • North Sea • Kattegat • Mediterranean Sea • Barents Sea • Adriatic Sea • Baltic Sea
Spatial scope	<ul style="list-style-type: none"> • European
EEA Management Plan	<ul style="list-style-type: none"> • 2018 1.6.2
EEA topics	<ul style="list-style-type: none"> • 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
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Association Type	Cross reference
Spatial representation type	Vector
Distance	20 20 km
Distance	100 100 km
Language of dataset	English
Topic category	<ul style="list-style-type: none">• Environment

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Begin date	2009-01-01		
End date	2016-12-31		
Coordinate reference system identifier	EPSG:3035		
Distribution format	<ul style="list-style-type: none"> • SHP (1) 		
OnLine resource	Protocol EEA:FILEPATH WWW:URL ESRI:REST OGC:WMS WWW:DOWNLOAD-1.0-http--download WWW:DOWNLOAD-1.0-http--download	Linkage https://sdi.eea.europa.eu/webdav/datastore/public/eea_v_3035_20_km_chase_p_2009-2016_v01_r00/CHASE_results_20190306.shp https://sdi.eea.europa.eu/data/3feffd63-ab0b-4f03-84e8-b2c324c93bbe https://marine.discomap.eea.europa.eu/arcgis/rest/services/Marine/CHASE_contaminants_sum_of_all/MapServer https://marine.discomap.eea.europa.eu/arcgis/services/Marine/CHASE_contaminants_sum_of_all/MapServer/WMServer?request=GetCapabilities&service=WMS https://sdi.eea.europa.eu/catalogue/srv/api/records/49eb412e-3002-492c-8323-ab5cac07fc40/attachments/Contaminants-in-Europes-seas-online-material-INPUT.xlsx https://sdi.eea.europa.eu/catalogue/srv/api/records/49eb412e-3002-492c-8323-ab5cac07fc40/attachments/Contaminants-in-Europes-seas-online-material-RESULTS-final.xlsx	Name Direct download Contaminants in Europes seas INPUT material Contaminants in Europes seas RESULTS-material
Hierarchy level	Dataset		

Conformance result

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

Statement	<p>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 x 20 km² in coastal waters and 100 x 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</p>
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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/>.

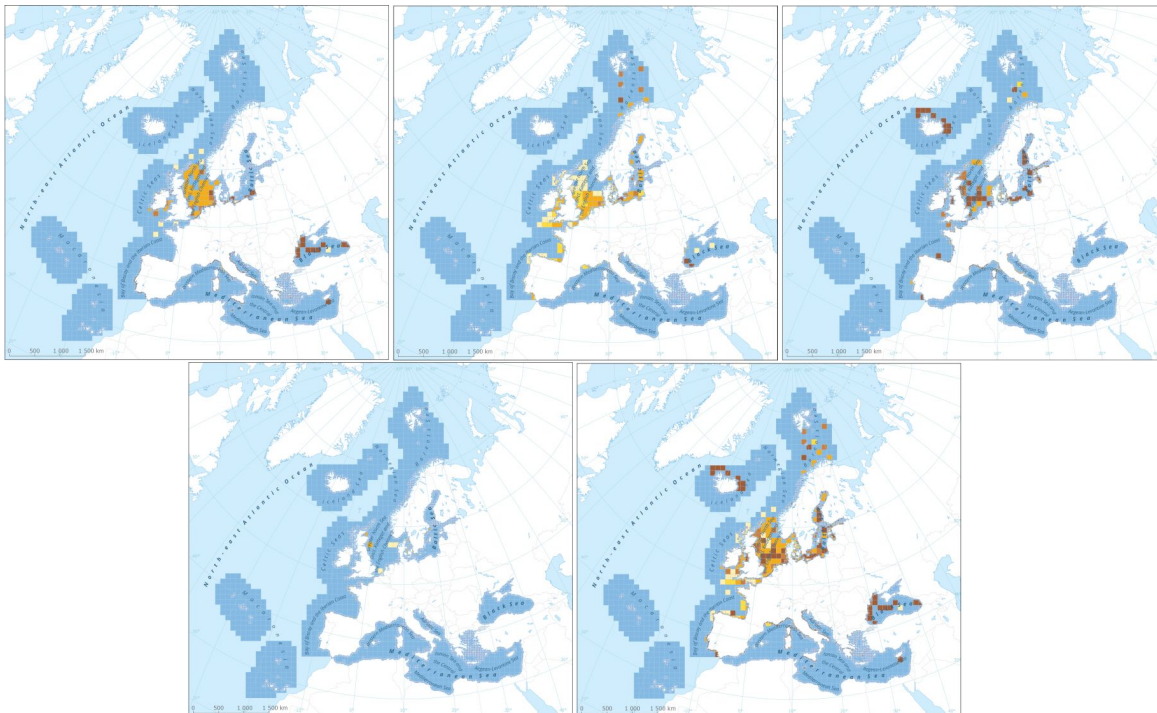
Source

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Metadata

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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



Provided by

