



## 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	Organisation name	Individual name	Electronic mail address	Website Role
	European Environment Agency		sdi@eea.europa.eu	<a href="http://www.eea.europa.eu">http://www.eea.europa.eu</a> Point of contact
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### Point of contact

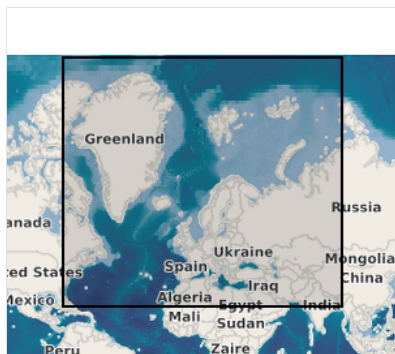
No information provided.

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

Continents, countries, sea regions of the world.	<ul style="list-style-type: none"> <li>English Channel</li> <li>Bay of Biscay</li> <li>Black Sea</li> <li>Norwegian Sea</li> <li>Iceland Sea</li> <li>Aegean Sea</li> <li>Celtic Sea</li> <li>Ionian Sea</li> <li>North Sea</li> <li>Kattegat</li> <li>Mediterranean Sea</li> <li>Barents Sea</li> <li>Adriatic Sea</li> <li>Baltic Sea</li> </ul>
<a href="#">Spatial scope</a>	<ul style="list-style-type: none"> <li><a href="#">European</a></li> </ul>
EEA Management Plan	<ul style="list-style-type: none"> <li>2018 1.6.2</li> </ul>
EEA topics	<ul style="list-style-type: none"> <li>Chemicals</li> <li>Seas and coasts</li> <li>Water</li> <li>Biodiversity</li> <li>Pollution</li> </ul>
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Access constraints	Other restrictions
Other constraints	<a href="#">no limitations to public access</a>
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Association Type	Cross reference
Spatial representation type	Vector
Distance	20 km
Distance	100 km
Language of dataset	English
Topic category	<ul style="list-style-type: none"><li>Environment</li></ul>

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<b>Begin date</b>	2009-01-01		
<b>End date</b>	2016-12-31		
<b>Coordinate reference system identifier</b>	<a href="#">EPSG:3035</a>		
<b>Distribution format</b>	<ul style="list-style-type: none"> <li>SHP ( 1 )</li> </ul>		
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<b>Hierarchy level</b>	Dataset		

## Conformance result

<b>Title</b>	Commission Regulation (EU) No 1089/2010 of 23 November 2010 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards interoperability of spatial data sets and services
<b>Date (Publication)</b>	2010-12-08
<b>Explanation</b>	See the referenced specification

<b>Statement</b>	<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 × 20 km<sup>2</sup> in coastal waters and 100 × 100 km<sup>2</sup> 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</p>
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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.

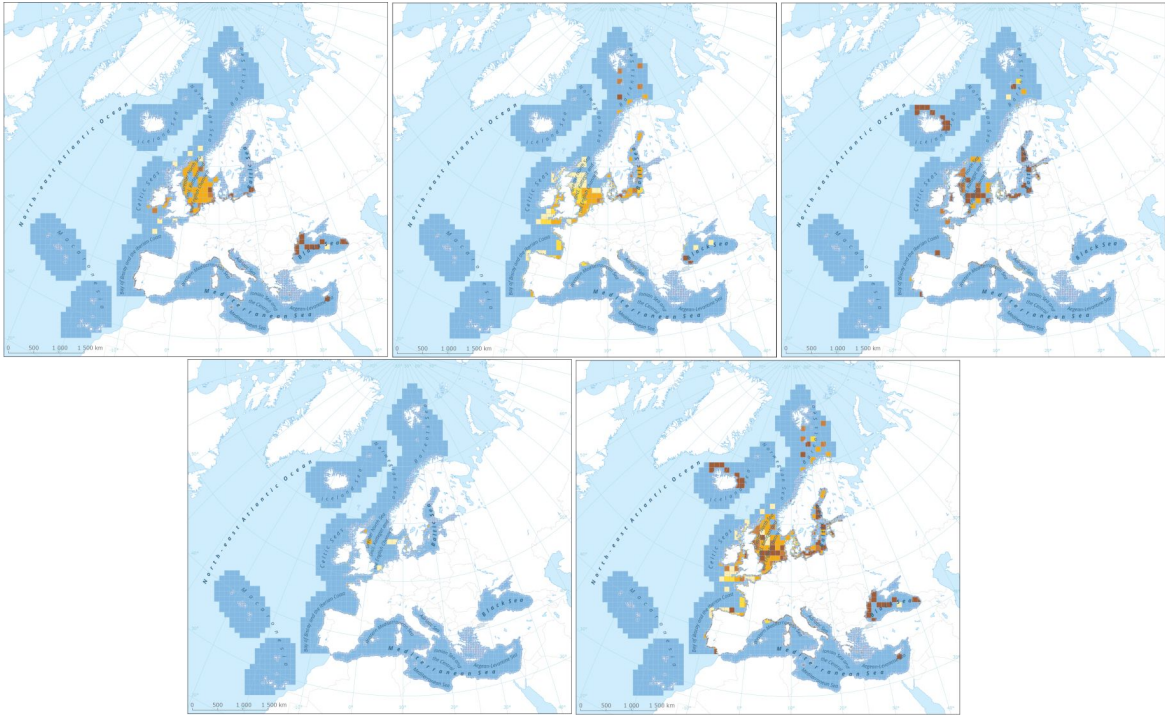
More information can be found in the report "Contaminants in Europe's seas" and online material on <https://www.eea.europa.eu/publications/contaminants-in-europes-seas/>.

Source	<ul style="list-style-type: none"><li>• <a href="#">EEA marine assessment grid, Jan. 2017</a></li></ul>
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Metadata

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Metadata language	English										
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Organisation name	Individual name	Electronic mail address	Website Role								
European Environment Agency		sdi@eea.europa.eu	Point of contact								

Overviews



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