

## 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 NPAAhigh and NPAAgood 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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### Point of contact

No information provided.

<b>Maintenance and update frequency</b>	As needed
<b>GEMET - INSPIRE themes, version 1.0</b>	<ul style="list-style-type: none"> <li>• <a href="#">Sea regions</a></li> <li>• <a href="#">Oceanographic geographical features</a></li> </ul>
<b>Keywords</b>	
<b>Keywords</b>	
<b>GEMET</b>	<ul style="list-style-type: none"> <li>• marine biota</li> <li>• aquatic environment</li> <li>• sediment</li> <li>• sea</li> <li>• environmental quality</li> </ul>

	<ul style="list-style-type: none"> <li>• marine ecosystem</li> <li>• good chemical status</li> <li>• sea water</li> <li>• ocean</li> <li>• indicator-based assessment</li> <li>• environment</li> <li>• contamination</li> </ul>
<b>Continents, countries, sea regions of the world.</b>	<ul style="list-style-type: none"> <li>• Mediterranean Sea</li> <li>• Bay of Biscay</li> <li>• Kattegat</li> <li>• English Channel</li> <li>• North Sea</li> <li>• Ionian Sea</li> <li>• Norwegian Sea</li> <li>• Black Sea</li> <li>• Barents Sea</li> <li>• Adriatic Sea</li> <li>• Celtic Sea</li> <li>• Baltic Sea</li> </ul>
<b>Spatial scope</b>	<ul style="list-style-type: none"> <li>• European</li> </ul>
<b>EEA Management Plan</b>	<ul style="list-style-type: none"> <li>• 2018 1.6.2</li> </ul>
<b>EEA topics</b>	<ul style="list-style-type: none"> <li>• Chemicals</li> <li>• Seas and coasts</li> <li>• Water</li> <li>• Biodiversity</li> <li>• Pollution</li> </ul>
<b>Access constraints</b>	Other restrictions
<b>Other constraints</b>	<a href="#">no limitations to public access</a>
<b>Use constraints</b>	Other restrictions
<b>Other constraints</b>	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 ( <a href="http://www.eea.europa.eu/legal/copyright">http://www.eea.europa.eu/legal/copyright</a> ). Copyright holder: European Environment Agency (EEA).
<b>Aggregate DatasetIdentifier</b>	701f09f3-8e94-4a6a-8136-0897111b74cb
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<b>Language of dataset</b>	English
<b>Topic category</b>	<ul style="list-style-type: none"><li>• Environment</li><li>• Oceans</li></ul>



<b>Begin date</b>	2009-01-01		
<b>End date</b>	2016-12-31		
<b>Coordinate reference system identifier</b>	<a href="#">EPSG:3857</a>		
<b>Distribution format</b>	<ul style="list-style-type: none"> <li>• SHP ( )</li> </ul>		
<b>OnLine resource</b>	<b>Protocol</b>	<b>Linkage</b>	<b>Name</b>
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	WWW:URL	<a href="https://sdi.eea.europa.eu/data/cd87cd22-0a6f-499b-9e27-9691e6e46030">https://sdi.eea.europa.eu/data/cd87cd22-0a6f-499b-9e27-9691e6e46030</a>	Direct download
	WWW:DOWNLOAD-1.0-http--download	<a href="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-INPUT.xlsx</a>	Contaminants in Europes seas INPUT material
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<b>OnLine resource</b>	<b>Protocol</b>	<b>Linkage</b>	<b>Name</b>
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<b>OnLine resource</b>	<b>Protocol</b>	<b>Linkage</b>	<b>Name</b>
	ESRI:REST	<a href="https://marine.discomap.eea.europa.eu/arcgis/rest/services/Marine/CHASE_contaminants_Sediments/MapServer">https://marine.discomap.eea.europa.eu/arcgis/rest/services/Marine/CHASE_contaminants_Sediments/MapServer</a>	CHASE based classification of contaminant status of Sediments

	OGC:WMS	<a href="https://marine.discomap.eea.europa.eu/arcgis/services/Marine/CHASE_contaminants_Sediments/MapServer/WMSServer?request=GetCapabilities&amp;service=WMS">https://marine.discomap.eea.europa.eu/arcgis/services/Marine/CHASE_contaminants_Sediments/MapServer/WMSServer?request=GetCapabilities&amp;service=WMS</a>
<b>Hierarchy level</b>	Dataset	

## Conformance result

<b>Date (Publication)</b>	2010-12-08
<b>Explanation</b>	See the referenced specification

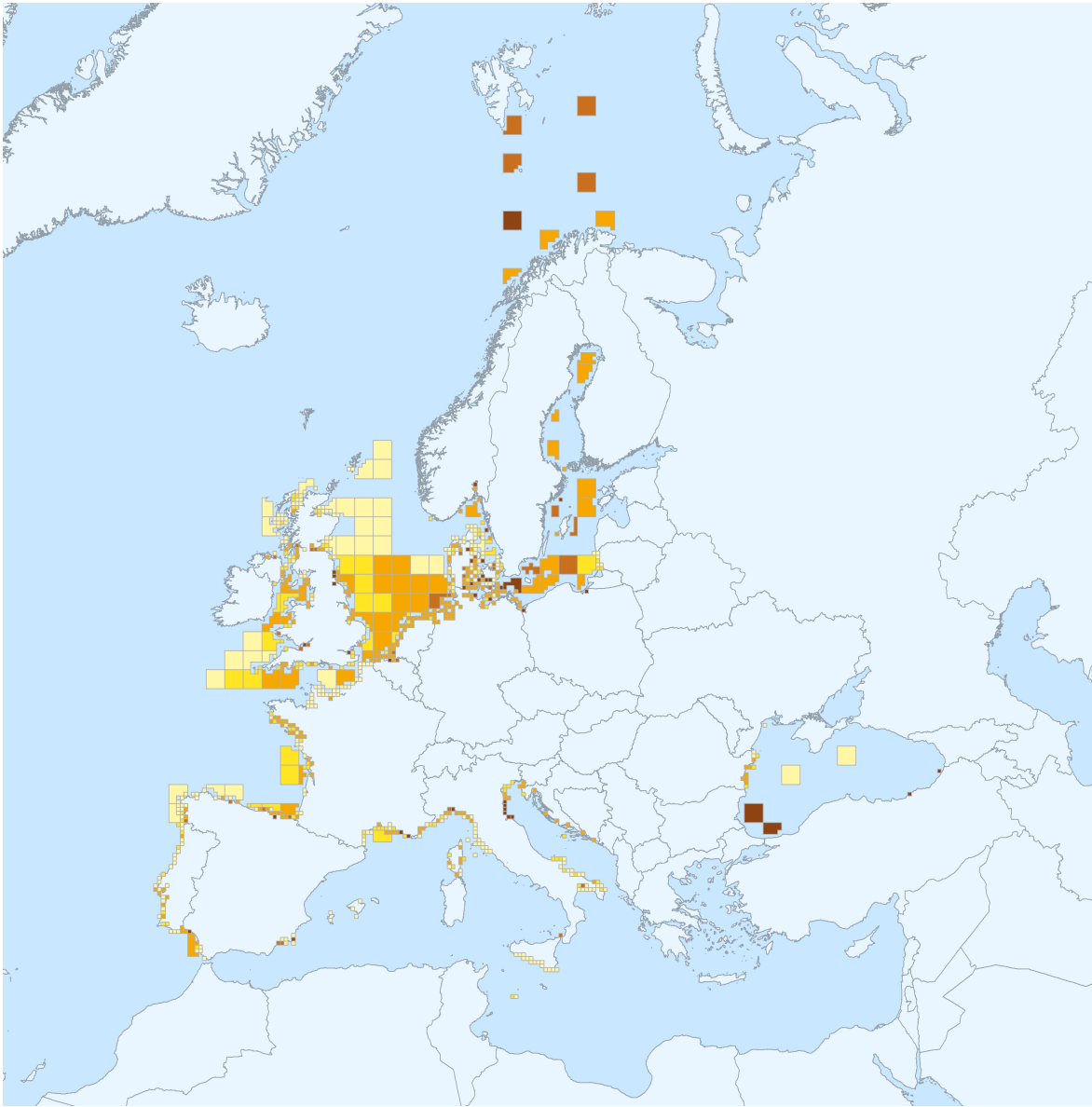
<b>Statement</b>	<p>This assessment is based on data on contaminants, monitored in transitional, coastal and marine waters in the context of the WFD and the MSFD. For this analysis, Europe's seas were divided into grid cells of 20 x 20 km<sup>2</sup> in coastal waters and 100 x 100 km<sup>2</sup> in 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 &gt; 10.0 (PAbad).</p> <p>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 (&gt; 20 km from the coastline); the second grid 20x20 km covers the coastal areas (&lt;= 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.</p> <p>More information can be found in the report "Contaminants in Europe's seas" and online material on <a href="https://www.eea.europa.eu/publications/contaminants-in-europes-seas/">https://www.eea.europa.eu/publications/contaminants-in-europes-seas/</a>.</p>
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<b>Source</b>	•
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## Metadata

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<b>Metadata author</b>	<table border="0"> <thead> <tr> <th>Organisation name</th> <th>Individual name</th> <th>Electronic mail address</th> <th>Website Role</th> </tr> </thead> <tbody> <tr> <td>European Environment Agency</td> <td></td> <td>sdi@eea.europa.eu</td> <td>Point of contact</td> </tr> </tbody> </table>	Organisation name	Individual name	Electronic mail address	Website Role	European Environment Agency		sdi@eea.europa.eu	Point of contact
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European Environment Agency		sdi@eea.europa.eu	Point of contact						

## Overviews



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