

## 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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<b>Date (Publication)</b>	2019-03-21		
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<b>Point of contact</b>	<b>Organisation name</b>	<b>Individual name</b>	<b>Electronic mail address</b> <b>Website</b> <b>Role</b>
	European Environment Agency		sdi@eea.europa.eu <a href="https://www.eea.europa.eu/contact">https://www.eea.europa.eu/contact</a>
	European Environment Agency		sdi@eea.europa.eu <a href="https://www.eea.europa.eu">https://www.eea.europa.eu</a> Custodian

### 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="#">Oceanographic geographical features</a></li> <li><a href="#">Sea regions</a></li> </ul>
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<b>Keywords</b>	
<b>GEMET</b>	<ul style="list-style-type: none"> <li>environment</li> <li>marine biology</li> <li>aquatic environment</li> <li>contamination</li> <li>good chemical status</li> <li>sea water</li> </ul>

	<ul style="list-style-type: none"> <li>• sea</li> <li>• marine ecosystem</li> <li>• indicator-based assessment</li> <li>• marine biota</li> <li>• ocean</li> <li>• environmental quality</li> </ul>
<b>Continents, countries, sea regions of the world.</b>	<ul style="list-style-type: none"> <li>• Norwegian Sea</li> <li>• North Sea</li> <li>• Ionian Sea</li> <li>• Kattegat</li> <li>• Bay of Biscay</li> <li>• Baltic Sea</li> <li>• Mediterranean Sea</li> <li>• Black Sea</li> <li>• Celtic Sea</li> <li>• Barents Sea</li> <li>• English Channel</li> <li>• Adriatic Sea</li> <li>• Iceland 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>	e542e9a1-715a-48e2-8c6c-d8a30541ca93
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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>

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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:3857</a>																				
<b>Distribution format</b>	<ul style="list-style-type: none"> <li>SHP ( )</li> </ul>																				
<b>OnLine resource</b>	<table border="1"> <thead> <tr> <th>Protocol</th> <th>Linkage</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>EEA:FILEPATH</td> <td><a href="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">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</a></td> <td></td> </tr> <tr> <td>WWW:URL</td> <td><a href="https://sdi.eea.europa.eu/data/df9061b-84ad-4ef1-ba83-519ab61ebb40">https://sdi.eea.europa.eu/data/df9061b-84ad-4ef1-ba83-519ab61ebb40</a></td> <td>Direct download</td> </tr> <tr> <td>WWW:LINK-1.0-http--link</td> <td><a href="https://www.eea.europa.eu/publications/contaminants-in-europes-seas">https://www.eea.europa.eu/publications/contaminants-in-europes-seas</a></td> <td>Contaminants in Europe's seas</td> </tr> <tr> <td>WWW:DOWNLOAD-1.0-http--download</td> <td><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></td> <td>Contaminants in Europes seas INPUT material</td> </tr> <tr> <td>WWW:DOWNLOAD-1.0-http--download</td> <td><a href="https://sdi.eea.europa.eu/catalogue/srv/api/records/49eb412e-3002-492c-8323-ab5cac07fc40/attachments/Contaminants-in-Europes-seas-online-material-RESULTS-final.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</a></td> <td>Contaminants in Europes seas RESULTS-material</td> </tr> </tbody> </table>	Protocol	Linkage	Name	EEA:FILEPATH	<a href="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">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</a>		WWW:URL	<a href="https://sdi.eea.europa.eu/data/df9061b-84ad-4ef1-ba83-519ab61ebb40">https://sdi.eea.europa.eu/data/df9061b-84ad-4ef1-ba83-519ab61ebb40</a>	Direct download	WWW:LINK-1.0-http--link	<a href="https://www.eea.europa.eu/publications/contaminants-in-europes-seas">https://www.eea.europa.eu/publications/contaminants-in-europes-seas</a>	Contaminants in Europe's seas	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	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-RESULTS-final.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</a>	Contaminants in Europes seas RESULTS-material		
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<b>Hierarchy level</b>	Dataset																				

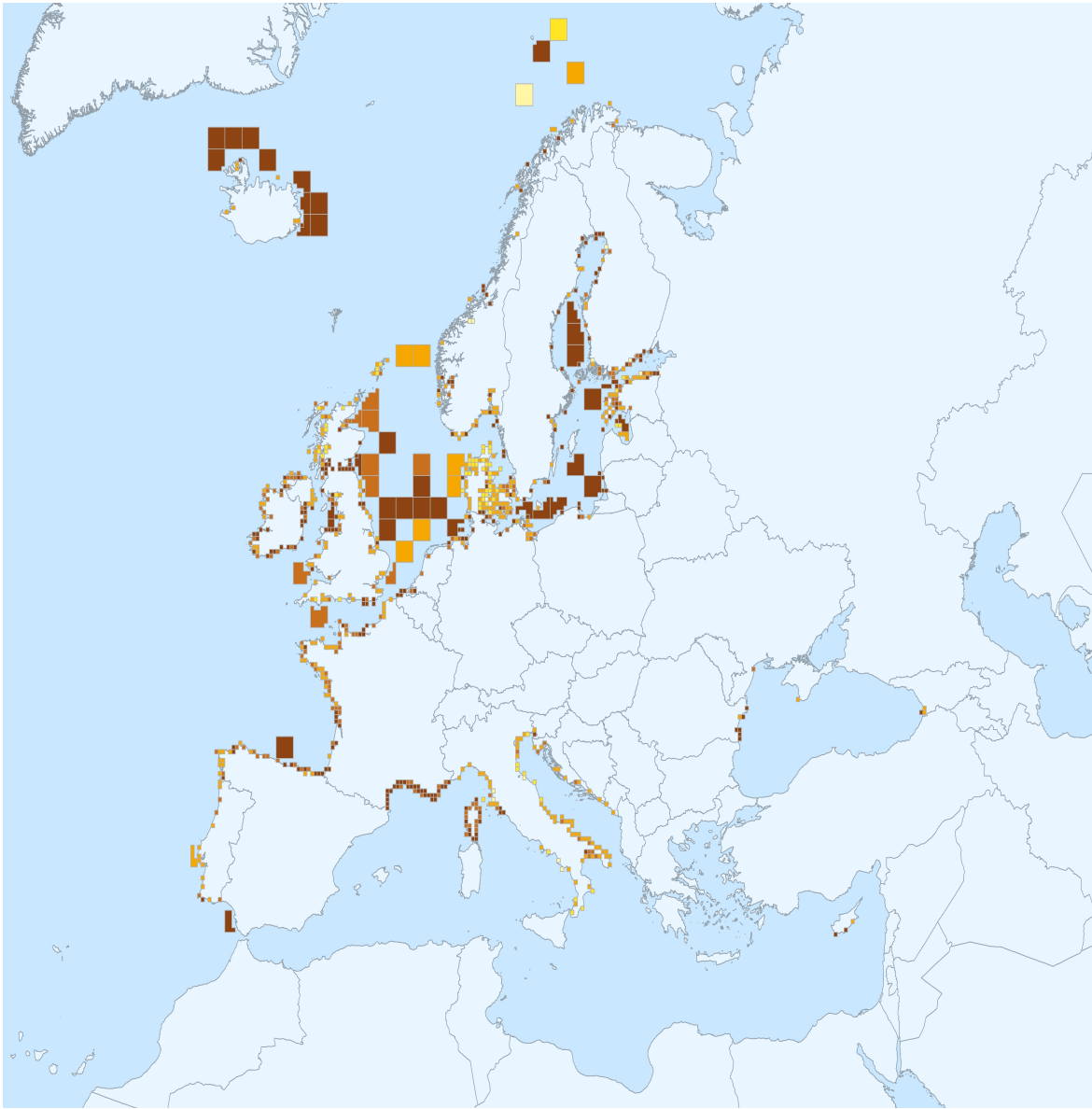
## Conformance result

<b>Date (Publication)</b>	
<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 × 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. 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 &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>
<b>Source</b>	•

## Metadata

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## Overviews



Provided by

