

Assessment of contamination status of seawater 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 'seawater'.

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

Data coverage for coastal waters is reasonably good for the Black Sea, the Mediterranean Sea, the North-East Atlantic Ocean and the southern Baltic Sea. Poor coverage is found in some northern parts of the Baltic Sea, the Norwegian Sea and the Barents Sea and also in western parts of the Mediterranean Sea. Data coverage for offshore waters is good in the North Sea and in western parts of 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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No information provided.

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| Maintenance and update frequency | As needed |
| EEA topics | <ul style="list-style-type: none"> Water |
| GEMET - INSPIRE themes, version 1.0 | <ul style="list-style-type: none"> Oceanographic geographical features Sea regions |
| Keywords | |

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| Keywords | |
| GEMET | <ul style="list-style-type: none"> • environment • sea • environmental quality • marine biota • ocean • marine ecosystem • sea water • good chemical status • marine biology • biological effect • indicator-based assessment • contamination • aquatic environment |
| Continents, countries, sea regions of the world. | <ul style="list-style-type: none"> • Black Sea • Celtic Sea • Aegean Sea • English Channel • Bay of Biscay • Ionian Sea • North Sea • Norwegian Sea • Baltic Sea • Mediterranean Sea • Kattegat • Adriatic Sea |
| Spatial scope | <ul style="list-style-type: none"> • European |
| EEA Management Plan | <ul style="list-style-type: none"> • 2018 1.6.2 |
| 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 Datasetidentifier | 4ec2134c-5a88-4e83-a60d-0c5f1af87531 |
| Association Type | Cross reference |
| Aggregate Datasetidentifier | 49eb412e-3002-492c-8323-ab5cac07fc40 |
| Association Type | Cross reference |

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| Aggregate Datasetidentifier | 3feffd63-ab0b-4f03-84e8-b2c324c93bbe |
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| Association Type | Cross reference |
| Aggregate Datasetidentifier | 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 | <ul style="list-style-type: none">• Environment• Oceans |



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|----------------------------|---|
| Begin date | 2009-01-01 |
| End date | 2016-12-31 |
| CRS identifier | EPSG:3857 |
| Distribution format | <ul style="list-style-type: none"> SHP () |

OnLine resource

No information provided.

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|------------------------|--|---|---|
| OnLine resource | Protocol WWW:LINK-1.0-http--link | Linkage https://www.eea.europa.eu/publications/contaminants-in-europes-seas | Name Contaminants in Europe's seas |
| OnLine resource | Protocol ESRI:REST | Linkage https://marine.discomap.eea.europa.eu/arcgis/rest/services/Marine/CHASE_contaminants_Seawater/MapServer | Name CHASE based classification of contaminant status of Seawater |
| | OGC:WMS | https://marine.discomap.eea.europa.eu/arcgis/services/Marine/CHASE_contaminants_Seawater/MapServer/WMSServer?request=GetCapabilities&service=WMS | |

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| Hierarchy level | Dataset |
|------------------------|---------|

Conformance result

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

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| 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. 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. For 'seawater', 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).</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 (> 20 km from the coastline); the second grid 20x20 km covers the coastal areas (<= 20</p> |
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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/>.

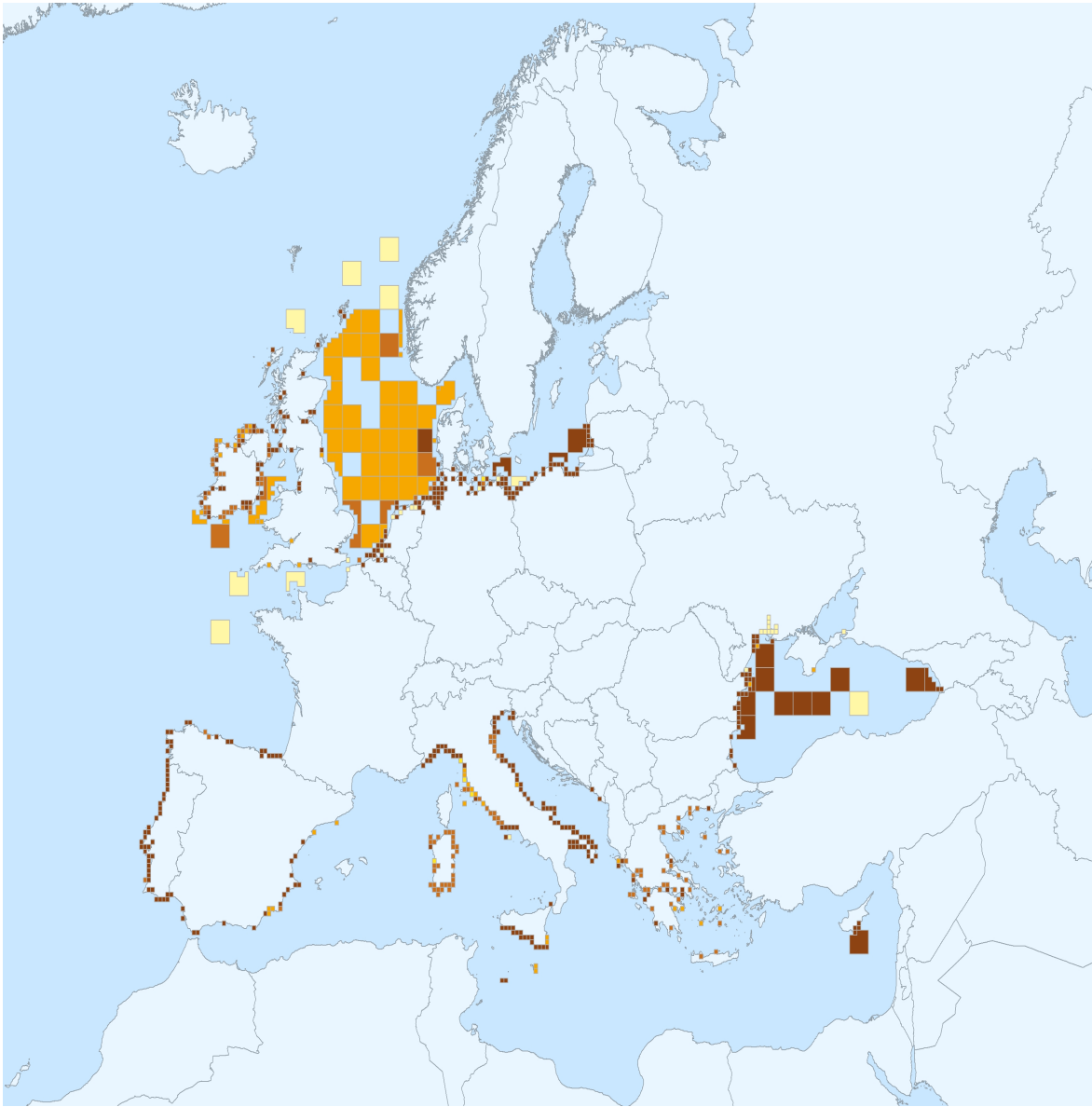
Source

- [EEA marine assessment grid, Jan. 2017](#)

Metadata

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| File identifier | e542e9a1-715a-48e2-8c6c-d8a30541ca93 XML | | |
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| | European Environment Agency | | sdi@eea.europa.eu eur sdi@eea.europa.eu Point of contact |

Overviews



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