

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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Point of contact	Organisation name	Individual name	Electronic mail address	Website Role
	European Environment Agency		sdi@eea.europa.eu	https://www.eea.europa.eu/contact
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Point of contact

No information provided.

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	
Keywords	
GEMET	<ul style="list-style-type: none"> environment sea environmental quality marine biota

	<ul style="list-style-type: none"> • 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).
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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• Oceans



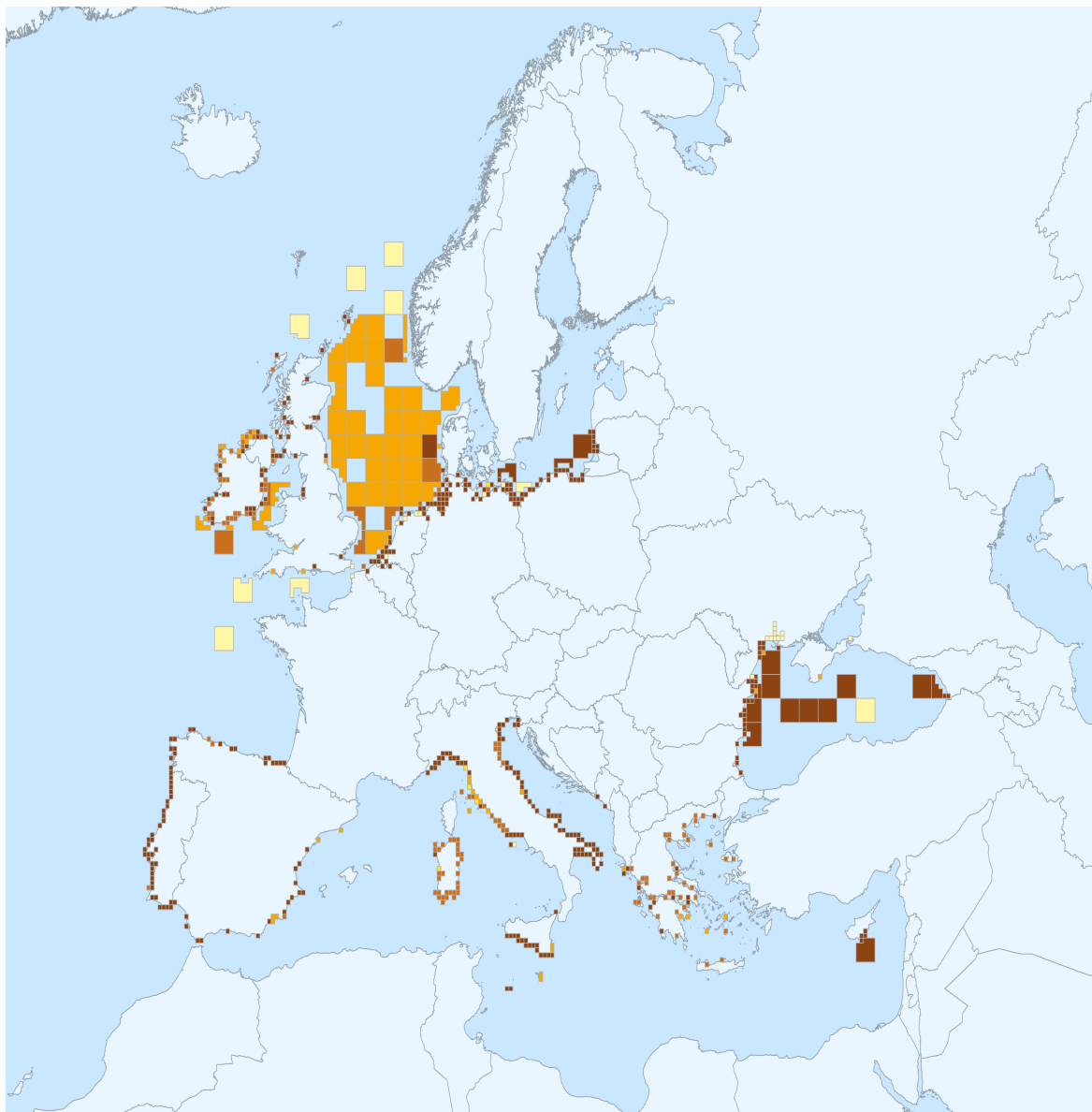
Begin date	2009-01-01		
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Distribution format	<ul style="list-style-type: none"> • SHP () 		
OnLine resource	Protocol	Linkage	Name
	EEA:FILEPATH	https://sdi.eea.europa.eu/webdav/datastore/public/eea_v_3857_20_km_chase-seawater_p_2009-2016_v01_r00/CHASE_Contaminants_seawater_WGS84.shp	
	WWW:URL	https://sdi.eea.europa.eu/data/e542e9a1-715a-48e2-8c6c-d8a30541ca93	Direct download
	WWW:DOWNLOAD-1.0-http--download	https://sdi.eea.europa.eu/catalogue/srv/api/records/49eb412e-3002-492c-8323-ab5cac07fc40/attachments/Contaminants-in-Europes-seas-online-material-INPUT.xlsx	Contaminants in Europes seas INPUT material
	WWW:DOWNLOAD-1.0-http--download	https://sdi.eea.europa.eu/catalogue/srv/api/records/49eb412e-3002-492c-8323-ab5cac07fc40/attachments/Contaminants-in-Europes-seas-online-material-RESULTS-final.xlsx	Contaminants in Europes seas RESULTS-material
OnLine resource	Protocol	Linkage	Name
	WWW:LINK-1.0-http--link	https://www.eea.europa.eu/publications/contaminants-in-europes-seas	Contaminants in Europe's seas
OnLine resource	Protocol	Linkage	Name
	ESRI:REST	https://marine.discomap.eea.europa.eu/arcgis/rest/services/Marine/CHASE_contaminants_Seawater/MapServer	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	
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. For this analysis, Europe's seas were divided into grid cells of 20 × 20 km² in coastal waters and 100 × 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 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 https://www.eea.europa.eu/publications/contaminants-in-europes-seas/.</p>
Source	•

Metadata

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Overviews



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