

Assessment of contaminant status of indicators of biological effects using CHASE+, Dec. 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 of biological effects.

This classification has been performed using the CHASE+ tool, with classifications of the of contaminant status of indicators of biological effects. The 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 biological effects is restricted to a few indicators (e.g. imposex) and data coverage is currently limited. Biological effects have thus been addressed in only 134 assessment units, mostly in the Baltic Sea, the North Sea and the North-East Atlantic Ocean.

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.

Simple

Date (Creation)	2019-03-06		
Date (Publication)	2019-03-21		
Edition	01.00		
Citation identifier	eea_v_3857_20_km_chase-bioe_p_2009-2016_v01_r00		
Citation identifier	DAT-211-en		
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
	European Environment Agency		sdi@eea.europa.eu https://www.eea.europa.eu Custodian

Point of contact

No information provided.

Maintenance and update frequency	As needed
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"> biological effect marine ecosystem sea good chemical status ocean marine biology

	<ul style="list-style-type: none"> • marine biota • sea water • contamination • environment • environmental quality • aquatic environment • indicator-based assessment
Continents, countries, sea regions of the world.	<ul style="list-style-type: none"> • Kattegat • Celtic Sea • Bay of Biscay • Baltic Sea • North Sea
Spatial scope	<ul style="list-style-type: none"> • European
EEA Management Plan	<ul style="list-style-type: none"> • 2018 1.6.2
EEA topics	<ul style="list-style-type: none"> • Chemicals • Seas and coasts • Water • Biodiversity • Pollution
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	3feffd63-ab0b-4f03-84e8-b2c324c93bbe
Association Type	Cross reference
Aggregate Datasetidentifier	cd87cd22-0a6f-499b-9e27-9691e6e46030
Association Type	Cross reference
Aggregate Datasetidentifier	e542e9a1-715a-48e2-8c6c-d8a30541ca93
Association Type	Cross reference
Aggregate Datasetidentifier	dfe9061b-84ad-4ef1-ba83-519ab61ebb40
Association Type	Cross reference
Aggregate Datasetidentifier	7c66efd5-4246-4b9d-86af-624950aa49d4
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		
End date	2016-12-31		
Coordinate reference system identifier	EPSG:3857		
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-bioe_p_2009-2016_v01_r00/CHASE_Contaminants_biological_effects_WGS84.shp	
	WWW:URL	https://sdi.eea.europa.eu/data/49eb412e-3002-492c-8323-ab5cac07fc40	Direct download
	WWW:LINK-1.0-http--link	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-online-material-INPUT.xlsx
	WWW: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-online-material-RESULTS-final.xlsx
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_Biological_effects/MapServer	
	OGC:WMS	https://marine.discomap.eea.europa.eu/arcgis/services/Marine/CHASE_contaminants_Biological_effects/MapServer/WMServer?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 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 'biological effects', a contaminant ratio (CR = Cstatus/Cthreshold) is 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

File identifier	49eb412e-3002-492c-8323-ab5cac07fc40 XML
------------------------	--

Metadata language	English
--------------------------	---------

Character set	UTF8
----------------------	------

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

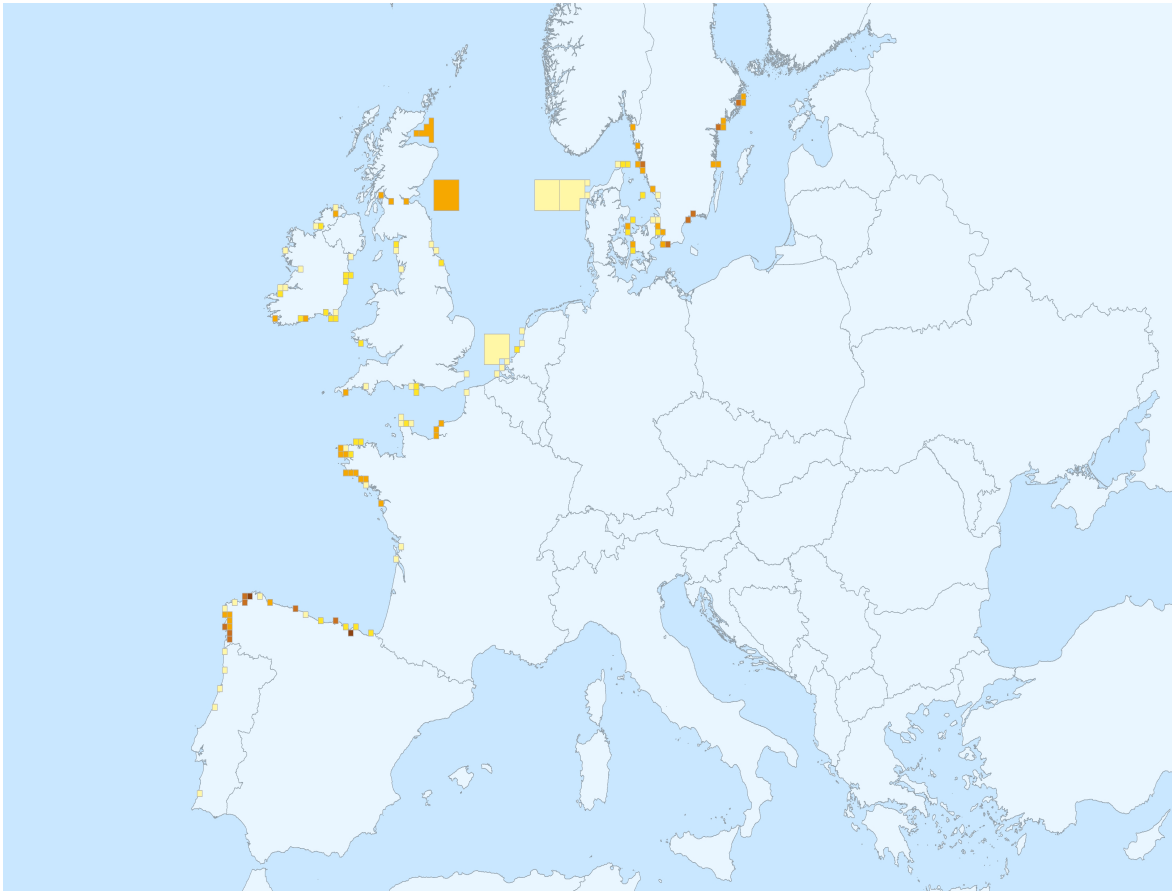
Date stamp	2023-03-07T16:41:16.963Z
-------------------	--------------------------

Metadata standard name	ISO 19115/19139
-------------------------------	-----------------

Metadata standard version	1.0
----------------------------------	-----

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

Overviews



Provided by

