



## Assessment of ecosystem health status using MESH+, Apr. 2020

This dataset presents the resulting assessment grid (based on the EEA reference grid) with the classification of ecosystem health of the transitional, coastal and marine waters in the context of the Water Framework Directive (WFD) and the Marine Strategy Framework Directive (MSFD). This classification has been performed using the MESH+ (Marine EcoSystem Health) tool.

The MESH+ tool builds on the EEA assessment tools developed and applied in the context of assessing the degree of contamination (CHASE+), eutrophication (HEAT+) and biodiversity (BEAT+) in Europe's seas (EEA, 2018a, 2019c; Vaughan et al., 2019). MESH+ makes use of the same data sets and threshold values used in these assessments but recombines these in a new framework that addresses 'ecosystem condition'.

The overall area of interest used is based on the marine regions and subregions under the MSFD. Additionally, Norwegian (Barents Sea and Norwegian Sea) and Icelandic waters ('Iceland Sea') have been added (see Surrounding seas of Europe). Note that within the North East Atlantic region only the subregions within EEZ boundaries (~200 nm) have been included. The spatial resolution of the assessment grid is 20 km x 20 km in coastal areas and 100 km x 100 km in offshore areas.

This dataset underpins the findings and cartographic representations published in the report "Marine Messages II" (EEA, 2020): <https://www.eea.europa.eu/publications/marine-messages-2>

### Simple

<b>Date (Creation)</b>	2019-05-08		
<b>Date (Publication)</b>	2020-05-14		
<b>Edition</b>	01.00		
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<b>Citation identifier</b>	DAT-233-en		
<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="http://www.eea.europa.eu">http://www.eea.europa.eu</a> Point of contact
	European Environment Agency		sdi@eea.europa.eu <a href="http://www.eea.europa.eu">http://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>
<b>Keywords</b>	
<b>Keywords</b>	
<b>GEMET</b>	<ul style="list-style-type: none"> <li>coastal water</li> <li>transitional waters</li> <li>sea water</li> <li>ocean</li> <li>marine ecosystem</li> <li>ecosystem assessment</li> </ul>

	<ul style="list-style-type: none"> <li>• Water Framework Directive</li> <li>• sea</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>• Barents Sea</li> <li>• English Channel</li> <li>• Baltic Sea</li> <li>• Bay of Biscay</li> <li>• Adriatic Sea</li> <li>• Black Sea</li> <li>• Iceland Sea</li> <li>• Aegean Sea</li> <li>• Kattegat</li> <li>• Mediterranean 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>• 2020 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>	3feffd63-ab0b-4f03-84e8-b2c324c93bbe
<b>Association Type</b>	Cross reference
<b>Aggregate DatasetIdentifier</b>	7c66cfd5-4246-4b9d-86af-624950aa49d4
<b>Association Type</b>	Cross reference
<b>Aggregate DatasetIdentifier</b>	70064384-f3b7-49ad-b137-bdf31af82158
<b>Association Type</b>	Cross reference
<b>Initiative Type</b>	Collection
<b>Spatial representation type</b>	Vector
<b>Distance</b>	100 km

<b>Distance</b>	20 km
<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>	2006-01-01		
<b>End date</b>	2016-12-31		
<b>Coordinate reference system identifier</b>	<a href="#">EPSG:3035</a>		
<b>Distribution format</b>	<ul style="list-style-type: none"> <li>• SHP ( 1 )</li> </ul>		
<b>OnLine resource</b>	<b>Protocol</b>	<b>Linkage</b>	<b>Name</b>
	EEA:FILEPATH	<a href="https://sdi.eea.europa.eu/webdav/datastore/public/eea_v_3035_20_km_mesh-ecosystem-health_p_2006-2016_v01_r00/">https://sdi.eea.europa.eu/webdav/datastore/public/eea_v_3035_20_km_mesh-ecosystem-health_p_2006-2016_v01_r00/</a>	
	WWW:URL	<a href="https://sdi.eea.europa.eu/data/660a7b8e-27c0-4b94-b495-e2d6d98ddd42">https://sdi.eea.europa.eu/data/660a7b8e-27c0-4b94-b495-e2d6d98ddd42</a>	Direct download
	OGC:WMS	<a href="https://marine.discomap.eea.europa.eu/arcgis/services/Marine/MESH_ecosystem_health/MapServer/WMServer?request=GetCapabilities&amp;service=WMS">https://marine.discomap.eea.europa.eu/arcgis/services/Marine/MESH_ecosystem_health/MapServer/WMServer?request=GetCapabilities&amp;service=WMS</a>	
	WWW:LINK-1.0-http--link	<a href="https://www.eea.europa.eu/data-and-maps/figures/provisional-identification-and-mapping-of">https://www.eea.europa.eu/data-and-maps/figures/provisional-identification-and-mapping-of</a>	EEA website - graphic
	ESRI:REST	<a href="https://marine.discomap.eea.europa.eu/arcgis/rest/services/Marine/MESH_ecosystem_health/MapServer">https://marine.discomap.eea.europa.eu/arcgis/rest/services/Marine/MESH_ecosystem_health/MapServer</a>	
<b>Hierarchy level</b>	Dataset		

## Conformance result

<b>Title</b>	Commission Regulation (EU) No 1089/2010 of 23 November 2010 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards interoperability of spatial data sets and services
<b>Date (Publication)</b>	2010-12-08
<b>Explanation</b>	See the referenced specification
<b>Statement</b>	<p>Results of classification of 'Marine Ecosystem Health' using the MESH+ tool. The Ecosystem Health status is evaluated in five classes:</p> <ul style="list-style-type: none"> <li>- "NPAhigh" and "NPAgood" are recognised as 'non-problem areas'</li> <li>- "PAmoderate", "PApoor" and "PAbad" are recognised as 'problem areas'.</li> </ul>

The MESH+ tool builds on the EEA assessment tools developed and applied in the context of assessing the degree of contamination (CHASE+), eutrophication (HEAT+) and biodiversity (BEAT+) in Europe's seas (EEA, 2018a, 2019c; Vaughan et al., 2019). MESH+ makes use of the same data sets and threshold values used in these assessments but recombines these in a new framework that addresses 'ecosystem condition'.

This dataset underpins the findings and cartographic representations published in the report "Marine Messages" (EEA, 2020), available on <https://www.eea.europa.eu/publications/marine-messages-2/>.

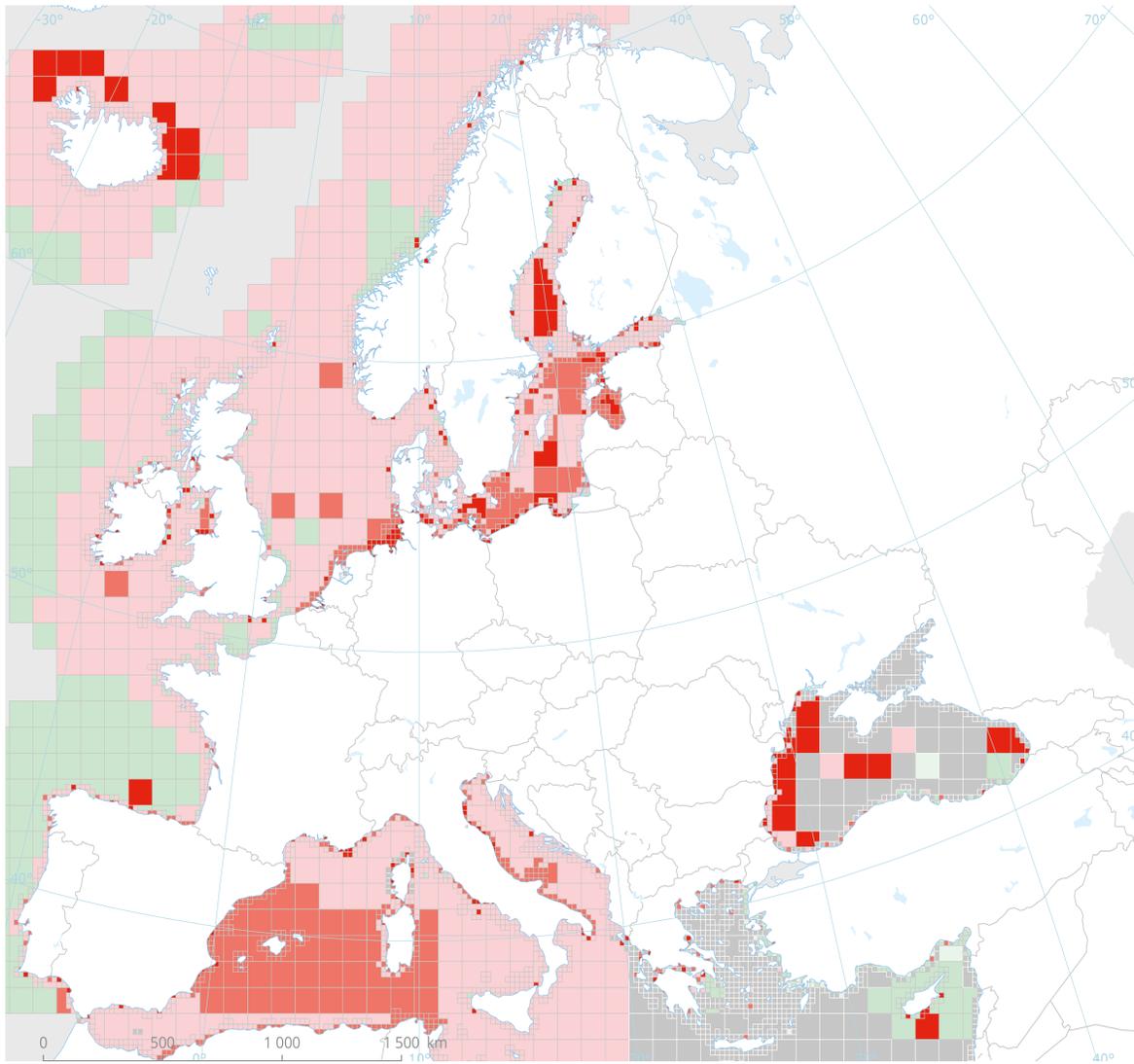
**Source**

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

**Metadata**

<b>File identifier</b>	660a7b8e-27c0-4b94-b495-e2d6d98ddd42 <a href="#">XML</a>		
<b>Metadata language</b>	English		
<b>Character set</b>	UTF8		
<b>Hierarchy level</b>	Dataset		
<b>Date stamp</b>	2025-01-15T21:08:53.202503Z		
<b>Metadata standard name</b>	ISO 19115/19139		
<b>Metadata standard version</b>	1.0		
<b>Metadata author</b>	<b>Organisation name</b>	<b>Individual name</b>	<b>Electronic mail address</b> <b>Website Role</b>
	European Environment Agency		<a href="mailto:sdi@eea.europa.eu">sdi@eea.europa.eu</a> Point of contact

**Overviews**



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