



# COPERNICUS MARINE & EMODNET DATA CATALOGUE FOR THE MARINE STRATEGY FRAMEWORK DIRECTIVE

## Baltic Sea Case study

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Date of release: **June 2021**



MSFD D1, D2, D3, D5, D6, D7, D8, D9, D10, D11

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## Introduction

The European Commission is providing data products and services to monitor our human activities, planet and environment. As far as the ocean is concerned, two Directorates-General of the European Commission, DG DEFIS and DG MARE, are supporting complementary initiatives: The Copernicus Marine Service and EMODnet that both distribute open access information, free of charge.

The Copernicus Marine Service and EMODnet are collaborating at coordination and operational levels to emphasize the complementarity of their respective marine data offers (available under [marine.copernicus.eu](http://marine.copernicus.eu) and [emodnet.eu](http://emodnet.eu) portals resp.).

The Copernicus Marine Service is devoted to the surveillance of the ocean worldwide. It offers free access to a catalogue of ~200 standardized and quality controlled products from *in situ*, satellite and numerical models describing the BLUE (physics), WHITE (sea ice) and GREEN (biogeochemistry) features of European seas and the Global Ocean. These data pertain to ocean circulation (ocean currents, waves, sea level, etc.), the thermohaline state (temperature, salinity, etc.), biogeochemical state (chlorophyll, oxygen, primary production, turbidity etc.) and the state of frozen bodies of sea water at high latitudes (sea ice cover and movements in the Arctic and Antarctica).

The European Marine Observation and Data Network (EMODnet) is a network of organizations supported by the EU's integrated maritime policy and a long-term Marine Knowledge initiative of the EC DG MARE. EMODnet works with *in situ* data sources and providers, data centres, consolidated data infrastructures and experts across Europe to process, harmonize and standardize marine data according to European and international standards and make that information freely available as interoperable data layers and data products. EMODnet provides access to *in situ* marine data across seven discipline-based themes: Bathymetry, Biology, Chemistry, Geology, Human activities, Physics and Seabed Habitats.


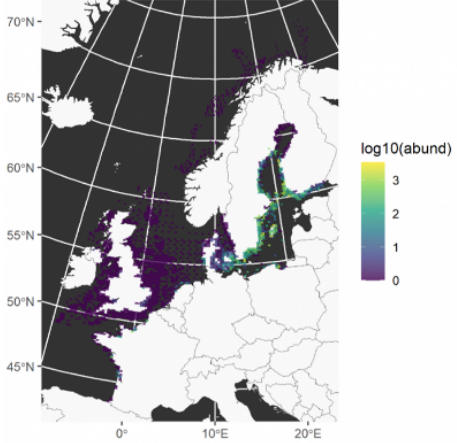
This joint Copernicus Marine and EMODnet data catalogue for the Marine Strategy Framework Directive gathers all relevant marine data products from Copernicus Marine and EMODnet for all the MSFD descriptors (except Descriptor4) in the Baltic Sea. We will soon enlarge this catalogue to all European Seas.

Please provide your feedback to:


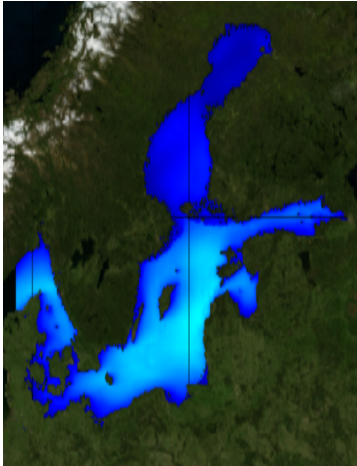
- Copernicus Marine Service: [laurence.crosnier@mercator-ocean.fr](mailto:laurence.crosnier@mercator-ocean.fr)
- EMODnet Chemistry: [a.giorgetti@inogs.it](mailto:a.giorgetti@inogs.it)


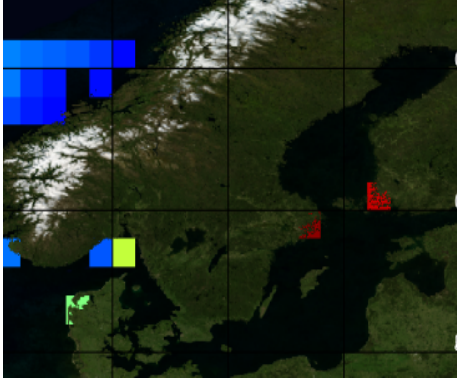
## Products relevant for D1 - Biodiversity

### Benthic macroinvertebrates


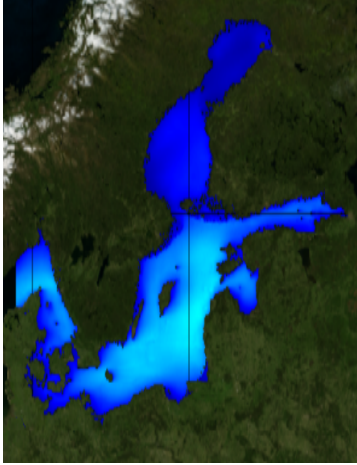
<p><b>Product name:</b> Data product numerical abundance of benthic macroinvertebrates in North Sea and Baltic Sea L4 &amp; L5A</p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> EMODnet Biology </p> <p><b>Name ID:</b> <a href="#">Data product numerical abundance of benthic macroinvertebrates in North Sea and Baltic Sea L4 &amp; L5A</a></p> <p><b>Variables:</b> species abundance</p> <p><b>Spatial resolution:</b> 0.33333 x 0.14285 degrees</p> <p><b>Temporal coverage:</b> 1911-2016</p> <p><b>Temporal resolution:</b> NA</p> <p><b>Update frequency:</b> NA</p> <p><b>Product relevancy:</b></p> <p><b>Viewer:</b> NA</p>	<p style="text-align: center;"><i>Limecola balthica</i> AphiaID 880017</p> 
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### Carbon/acidity


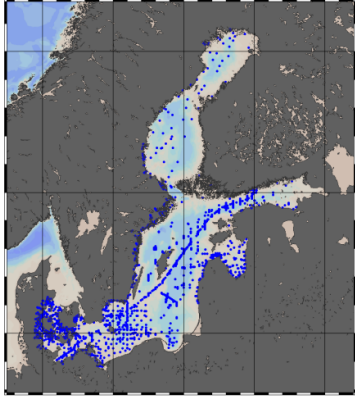

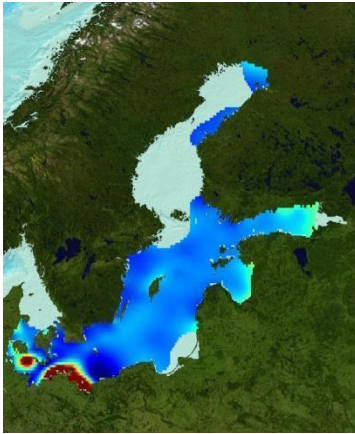
<p><b>Product name:</b> Global Ocean- in-situ reprocessed carbon observations SOCATv2020 / GLODAPv2.2020</p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> CMEMS </p> <p><b>Name ID:</b> <a href="#">INSITU_GLO_CARBON_REP_OBSERVATIONS_01_3_050</a></p> <p><b>Variables:</b> carbon/acidity</p> <p><b>Spatial resolution:</b> 1° x 1°</p> <p><b>Temporal coverage:</b> from 1957-10-22 to 2020-01-05</p> <p><b>Temporal resolution:</b> instantaneous</p> <p><b>Update frequency:</b> irregular/ annually</p> <p><b>Product relevancy :</b> offshore to 1km by the coast</p> <p><b>Algorithm:</b> <a href="#">Quality information document</a></p> <p><b>Viewer:</b> NA</p>	
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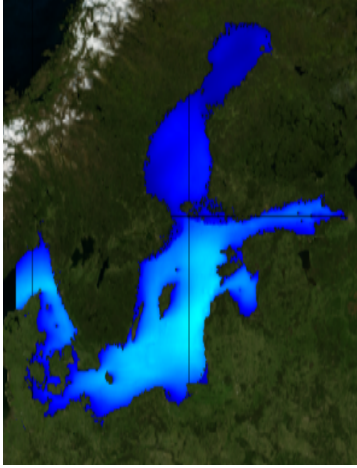
<p><b>Product name:</b> Global ocean surface carbon reprocessed on regular grid</p> <p><b>Type:</b> in situ and satellite</p> <p><b>Service source:</b> CMEMS </p> <p><b>Name ID:</b> <a href="#">MULTIOBS_GLO_BIO_CARBON_SURFACE_REP_015_008</a></p> <p><b>Variables:</b> carbon/acidity</p> <p><b>Spatial resolution:</b> 100 km x 100 km,</p> <p><b>Temporal coverage:</b> from 1985-01-01 to present</p> <p><b>Temporal resolution</b> monthly mean</p> <p><b>Update frequency:</b> irregular</p> <p><b>Product relevancy :</b> offshore to 100 km by the coast</p> <p><b>Algorithm:</b> CMEMS Feed Forward Neural Networks</p> <p><a href="#">Viewer.</a></p>	
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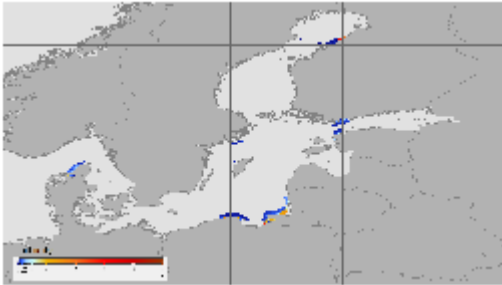
## Chlorophyll-a (Chl)

<p><b>Product name:</b> Global Ocean - Delayed Mode Biogeochemical product</p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> CMEMS </p> <p><b>Name ID:</b> <a href="#">INSITU_GLO_BGC_REP_OBSERVATIONS_013_046</a></p> <p><b>Variables:</b> chlorophyll-a (CHL)</p> <p><b>Spatial resolution:</b> undefined x undefined</p> <p><b>Temporal coverage:</b> from 1990-01-01 to 2019-12-31</p> <p><b>Temporal resolution :</b> instantaneous</p> <p><b>Update frequency:</b> annually</p> <p><b>Product relevancy :</b> at measurement points</p> <p><b>Algorithm:</b> <a href="#">Quality information document</a></p> <p><b>Viewer:</b> NA</p>	
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<p><b>Product name:</b> Baltic sea surface and depth reprocessed chlorophyll at measurement points</p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> EMODnet Chemistry </p> <p><b>Name ID:</b> <a href="#">Eutrophication and Acidity aggregated datasets v2018</a></p> <p><b>Variables:</b> chlorophyll-a (<math>\text{mg}\cdot\text{m}^{-3}</math>)</p> <p><b>Spatial resolution:</b> at measurement point, all water depths</p> <p><b>Temporal coverage:</b> 1974 to 2017</p> <p><b>Temporal resolution:</b> instantaneous</p> <p><b>Update frequency:</b> yearly or biannual</p> <p><b>Product relevancy:</b> at measurement points</p>	
<p><b>Product name:</b> Baltic sea surface and depth 6-year analysis chlorophyll interpolated on regular grid</p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> EMODnet Chemistry </p> <p><b>Name ID:</b> <a href="#">DIVA 4D 6-year analysis of Water body chlorophyll-a</a></p> <p><b>Variable:</b> chlorophyll-a (<math>\text{mg}\cdot\text{m}^{-3}</math>)</p> <p><b>Spatial resolution:</b> 11km x 11km, 21 nominal standard depth levels</p> <p><b>Temporal coverage:</b> 1979-12-18 to 2016-02-22</p> <p><b>Temporal resolution:</b> seasonal per year</p> <p><b>Update frequency:</b> yearly or biannual</p> <p><b>Product relevancy:</b> from coast to open sea</p> <p><a href="#">Viewer.</a></p>	

<p><b>Product name:</b> Global Ocean chlorophyll reprocessed on regular grid</p> <p><b>Type:</b> in situ and satellite</p> <p><b>Service source:</b> CMEMS </p> <p><b>Name ID:</b> <a href="#">MULTIOBS_GLO_BIO_BGC_3D_REP_015_010</a></p> <p><b>Variables:</b> chlorophyll</p> <p><b>Spatial resolution:</b> 25 km x 25 km,</p> <p><b>Temporal coverage:</b> from 1998-01-01 to present</p> <p><b>Temporal resolution</b> weekly mean /monthly mean</p> <p><b>Update frequency:</b> irregular</p> <p><b>Product relevancy:</b> offshore to 25 km by the coast</p> <p><b>Algorithm:</b> SOCA2020:multi-layer-perceptron (MPL) merging satellite and Argo data</p> <p><a href="#">Viewer</a></p>	
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<p><b>Product name:</b> Baltic Sea Bio-Geo-Chemical L3 High Resolution daily observation</p> <p><b>Type:</b> satellite</p> <p><b>Service source:</b> CMEMS </p> <p><b>Name ID:</b> <a href="#">OCEANCOLOUR_BAL_BGC_HR_L3_NRT_009_202</a></p> <p><b>Variables:</b> chlorophyll-a (<math>\text{mg}\cdot\text{m}^{-3}</math>), turbidity</p> <p><b>Spatial resolution:</b> 100m x 100m, surface</p> <p><b>Temporal coverage:</b> 2020-01-01 to ongoing</p> <p><b>Temporal resolution:</b> daily mean</p> <p><b>Update frequency:</b> daily</p> <p><b>Product relevancy:</b> high resolution product from coast to 20km offshore</p> <p><b>Algorithm:</b> Sentinel-2</p> <p><b>Viewer:</b> NA</p>	
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**Product name: Baltic Sea Bio-Geo-Chemical L4  
High Resolution daily observation**

Type: satellite

Service source: CMEMS 

Name ID:

[OCEANCOLOUR\\_BAL\\_BGC\\_HR\\_L3\\_NRT\\_009\\_2018](#)

Variables: chlorophyll-a ( $\text{mg}\cdot\text{m}^{-3}$ ), turbidity

Spatial resolution: 100m x 100m, surface

Temporal coverage: 2020-01-01 to ongoing

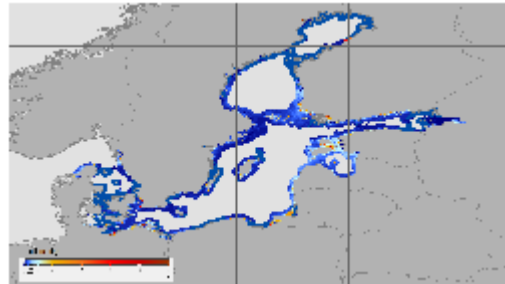
Temporal resolution: daily, monthly, quarterly mean

Update frequency: daily

Product relevancy: high resolution product from coast to 20km offshore

Algorithm: Sentinel-2

Viewer:NA



**Product name: Baltic Sea surface reprocessed  
chlorophyll L3**

Type: satellite

Service source: CMEMS 

Name ID:

[OCEANCOLOUR\\_BAL\\_CHL\\_L3\\_REP\\_OBSERVATION\\_009\\_080](#)

Variables: chlorophyll-a ( $\text{mg}\cdot\text{m}^{-3}$ )

Spatial resolution: 1km x 1 km, surface

Temporal coverage: 1997-09-04 to 2017-12-19

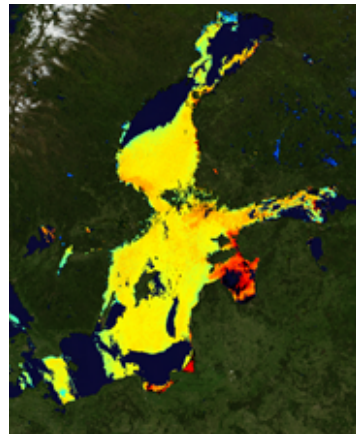
Temporal resolution: daily mean


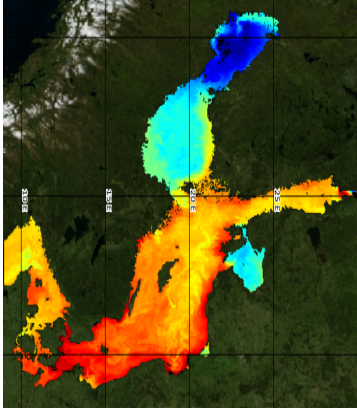
Update frequency: yearly & daily

Product relevancy: clear water, offshore to 1km at the coast



Algorithm: Regional Multi Layer Perceptron neural-net (MLPBLTS)


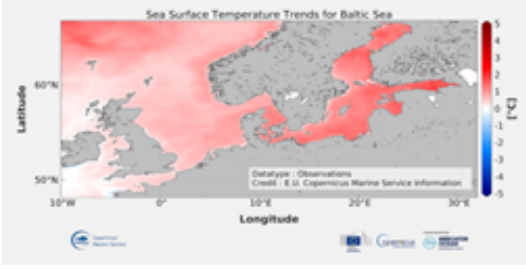
[Viewer.](#)


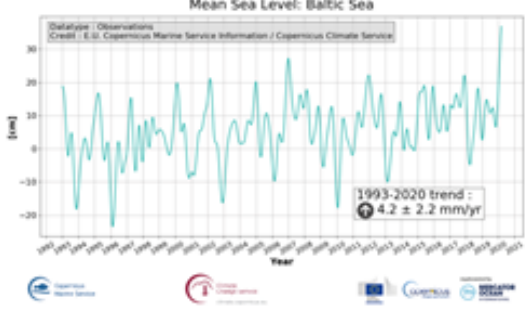


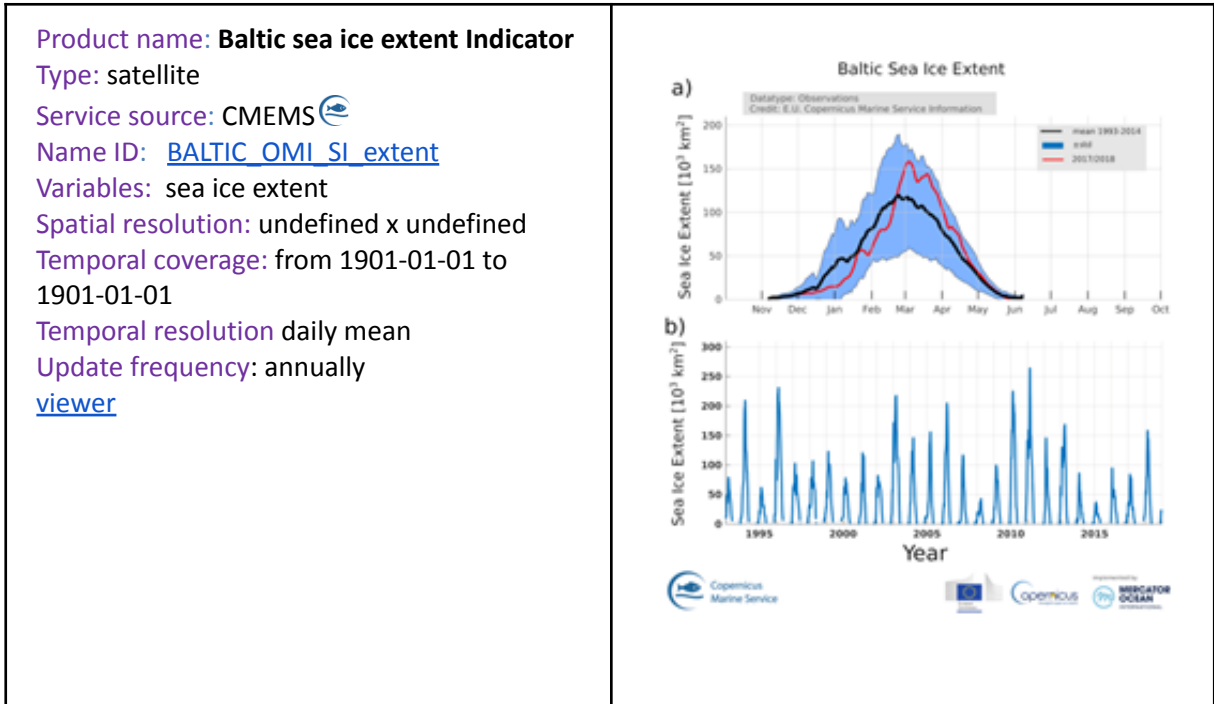
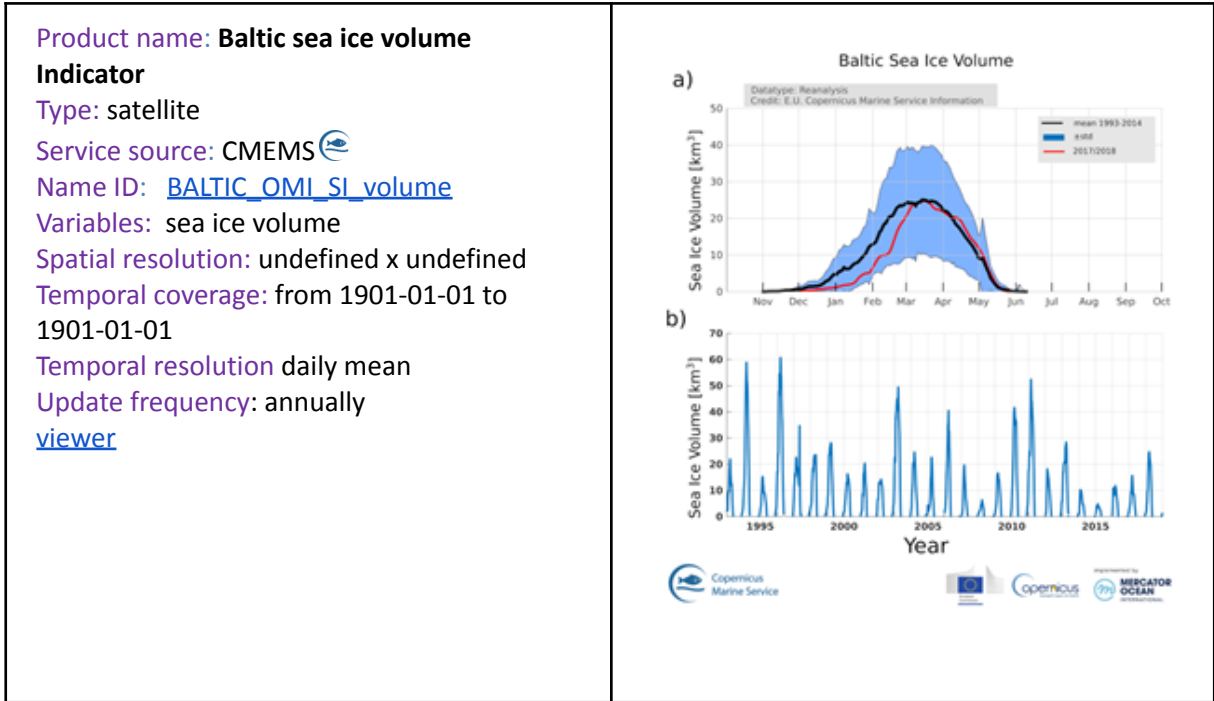
<p><b>Product name:</b> Baltic Sea surface and depth delayed time chlorophyll on regular model grid</p> <p><b>Type:</b> model</p> <p><b>Service source:</b> CMEMS </p> <p><b>Name ID:</b> <a href="#">BALTICSEA_REANALYSIS_BIO_003_012</a></p> <p><b>Variables:</b> chlorophyll-a (<math>\text{mg}\cdot\text{m}^{-3}</math>)</p> <p><b>Spatial resolution:</b> 4 km x 4 km, 56 depth levels</p> <p><b>Temporal coverage:</b> From 1993-01-01 to 2019-12-31</p> <p><b>Temporal resolution</b> monthly mean / daily mean /</p> <p><b>Update frequency:</b> monthly / daily</p> <p><b>Product relevancy :</b> offshore to 2 km by the coast</p> <p><b>Algorithm:</b> BAL MFC-ERGOM coupled with NEMO 4.0</p> <p><a href="#">Viewer.</a></p>	
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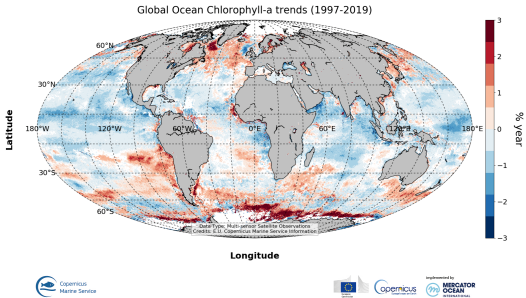
## Climatic trends


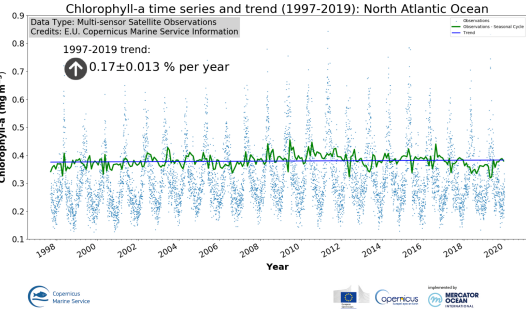
<p><b>Product name:</b> Baltic sea bottom salinity</p> <p><b>Indicator</b></p> <p><b>Type:</b> in situ and satellite</p> <p><b>Service source:</b> CMEMS </p> <p><b>Name ID:</b> <a href="#">BALTIC_OMI_WMHE_mbi_bottom_salinity_ar_kona_bornholm</a></p> <p><b>Variables:</b> sea water salinity (S)</p> <p><b>Spatial resolution:</b> NA</p> <p><b>Temporal coverage:</b> from 1901-01-01 to 1901-01-01</p> <p><b>Temporal resolution</b> 1 year</p> <p><b>Update frequency:</b> annually</p> <p><a href="#">viewer</a></p>	
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<p><b>Product name:</b> Baltic sea surface temperature trend Indicator</p> <p>Type: satellite</p> <p>Service source: CMEMS </p> <p>Name ID: <a href="#">BALTIC_OMI_TEMP_SAL_sst_trend</a></p> <p>Variables: sea surface temperature anomaly</p> <p>Spatial resolution: 0.03 x 0.03</p> <p>Temporal coverage: from 1901-01-01 to 1901-01-01</p> <p>Temporal resolution annual mean</p> <p>Update frequency: annually</p> <p><a href="#">viewer</a></p>	
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<p><b>Product name:</b> Baltic mean sea level Indicator</p> <p>Type: satellite</p> <p>Service source: CMEMS </p> <p>Name ID: <a href="#">BALTIC_OMI_SL_area_averaged_anomalies</a></p> <p>Variables: sea surface height above sea level (SSH)</p> <p>Spatial resolution: NA</p> <p>Temporal coverage: from 1901-01-01 to 1901-01-01</p> <p>Temporal resolution pluri-annually-mean</p> <p>Update frequency: NA</p> <p><a href="#">viewer</a></p>	
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<p><b>Product name:</b> Global chlorophyll-a trend</p> <p><b>Indicator</b></p> <p><b>Type:</b> satellite</p> <p><b>Service source:</b> CMEMS </p> <p><b>Name ID:</b> <a href="#">GLOBAL OMI HEALTH OceanColour trend</a></p> <p><b>Variables:</b> chlorophyll-a</p> <p><b>Spatial resolution:</b> undefined x undefined</p> <p><b>Temporal coverage:</b> from 1901-01-01 to 1901-01-01</p> <p><b>Temporal resolution</b> 1 year</p> <p><b>Update frequency:</b> annually</p> <p><a href="#">viewer</a></p>	 <p>Global Ocean Chlorophyll-a trends (1997-2019)</p> <p>Latitude</p> <p>Longitude</p> <p>Area %</p> <p>Coastline</p> <p>ICESAT</p> <p>ICESAT OCEAN</p> <p>Coastline</p> <p>ICESAT</p> <p>ICESAT OCEAN</p>
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<p><b>Product name:</b> Global chlorophyll-a time series and trend Indicator</p> <p><b>Type:</b> satellite</p> <p><b>Service source:</b> CMEMS </p> <p><b>Name ID:</b> <a href="#">ATLANTIC OMI HEALTH OceanColour area averaged mean</a></p> <p><b>Variables:</b> chlorophyll-a</p> <p><b>Spatial resolution:</b> undefined x undefined</p> <p><b>Temporal coverage:</b> from 1901-01-01 to 1901-01-01</p> <p><b>Temporal resolution</b> 1 year</p> <p><b>Update frequency:</b> annually</p> <p><a href="#">Viewer</a></p>	 <p>Chlorophyll-a time series and trend (1997-2019): North Atlantic Ocean</p> <p>Data Type: Multisensor Satellite Observations</p> <p>Credits: E.U. Copernicus Marine Service Information</p> <p>1997-2019 trend: <math>0.17 \pm 0.013</math> % per year</p> <p>Chlorophyll-a (mg m<sup>-3</sup>)</p> <p>Year</p> <p>Coastline</p> <p>ICESAT</p> <p>ICESAT OCEAN</p>
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## Habitat

<p><b>Product name:</b> Baltic seabed habitat predictive multi-scale map</p> <p><b>Type:</b> model</p> <p><b>Service source:</b> EMODnet Seabed habitats </p> <p><b>Name ID:</b> <a href="#">EMODnet broad-scale seabed habitat map for Europe (EUSeaMap)</a></p> <p><b>Variables:</b> habitat type following the MSFD broad habitat types (as defined in Commission Decision (EU) 2017/848)</p> <p><b>Scale:</b> multi-scale, vector format file</p> <p><b>Temporal coverage:</b> n/a</p> <p><b>Temporal resolution:</b> n/a</p> <p><b>Update frequency:</b> biannually</p> <p><b>Product relevancy:</b> from coast to open sea</p> <p><a href="#">Viewer.</a></p>	 <p>Suomi</p> <p>Sverige</p> <p>Oslo</p> <p>Stockholm</p> <p>Cesti</p> <p>Latvija</p> <p>Lietuva</p> <p>Беларусь</p> <p>Санкт-Петербург</p> <p>Рига</p> <p>Вильнюс</p> <p>Берлин</p>
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## Phytoplankton

**Product name:** Presence/Absence maps of phytoplankton in the Greater Baltic Sea L4 & L5A

**Type:** in situ

**Service source:** EMODnet Biology 

**Name ID:**

[Presence/Absence maps of phytoplankton in the Greater Baltic Sea L4 & L5A](#)

**Variables:** species presence/absence

**Spatial resolution:** : 0.18666 x 0.05714 degrees

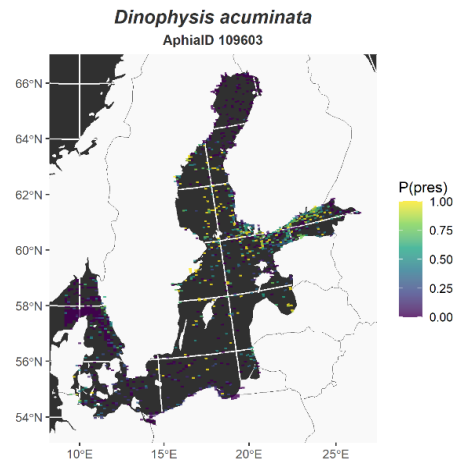
**Temporal coverage:** 1995-01-01 to 2020-03-31

**Temporal resolution:** NA

**Update frequency:** NA

**Product relevancy:**

**Viewer:** NA



**Product name:** Global ocean biogeochemistry hindcast

**Type:** model

**Service source:** CMEMS 

**Name ID:** [GLOBAL REANALYSIS BIO 001 029](#)

**Variables:** mole concentration of phytoplankton expressed as carbon in sea water (PHYC)

**Spatial resolution:** 0.25°x 0.25°

**Temporal coverage:** from 1993-01-01 to 2019-12-23

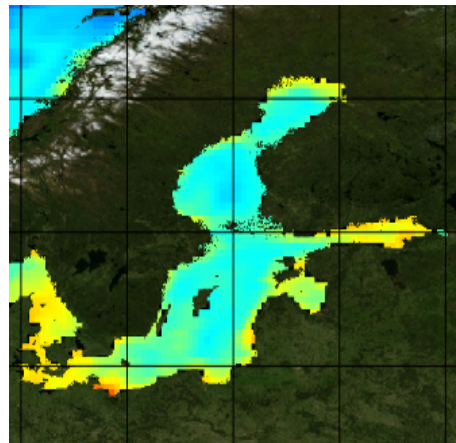
**Temporal resolution:** daily mean/ monthly mean

**Update frequency:** weekly

**Product relevancy:** offshore to 1 km by the coast

**Algorithm:** NEMO 3.6 – PISCESv2

[Viewer.](#)





## Salinity

**Product name: Global Ocean- Reprocessed salinity in-situ observations objective analysis in delayed mode**

Type: in situ

Service source: CMEMS 

Name ID:

[INSITU\\_GLO\\_TS\\_OA\\_REP\\_OBSERVATIONS\\_013\\_002\\_b](#)

Variables: sea water salinity (T)

Spatial resolution: undefined and undefined

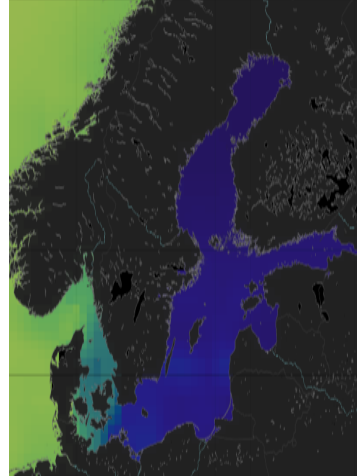
Temporal coverage: from 1990-01-01 to 2019-12-31

Temporal resolution instantaneous

Update frequency: biannually

Product relevancy : observations points

Algorithm: [Quality information document Viewer](#)



**Product name: Global ocean salinity reprocessed on regular grid**

Type: in situ and satellite

Service source: CMEMS 

Name ID:

[MULTIOBS\\_GLO\\_PHY\\_S\\_SURFACE\\_MYNRT\\_015\\_013](#)

Variables: salinity (S)

Spatial resolution: 25 km x 25 km,

Temporal coverage: from 1993-01-01 to present

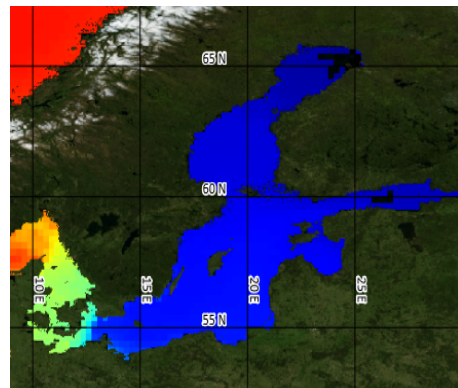
Temporal resolution weekly mean /monthly mean

Update frequency: irregular

Product relevancy: offshore to 25 km by the coast

Algorithm: Multidimensional Optimal Interpolation

[Viewer](#)



**Product name: Global Ocean 3D Temperature, Salinity, Height, Geostrophic Current and Mixed Layer Depth**

Type: in situ and satellite

Service source: CMEMS 

Name ID:

[MULTIOBS\\_GLO\\_PHY\\_TSUV\\_3D\\_MYNRT\\_015\\_012](#)

Variables: salinity (S)

Spatial resolution: 25 km x 25 km,

Temporal coverage: from 1993-01-01 to present

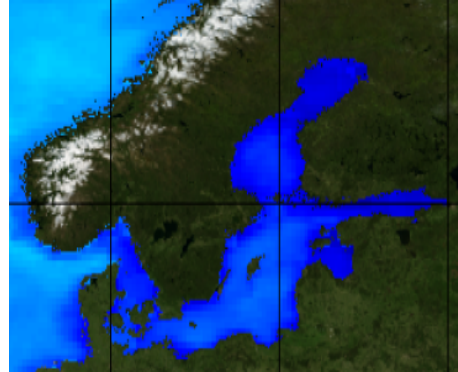
Temporal resolution weekly mean /monthly mean / annually mean

Update frequency: weekly mean /monthly mean / annually mean

Product relevancy: offshore to 25 km by the coast

Algorithm: ARMOR3D analysis and multi-year reprocessing

[Viewer.](#)



**Product name: EMODnet Physics - PSAL\_002**

Type: in situ

Service source: EMODnet Physics 

Name ID: [EP\\_MAP\\_PSAL\\_002](#)

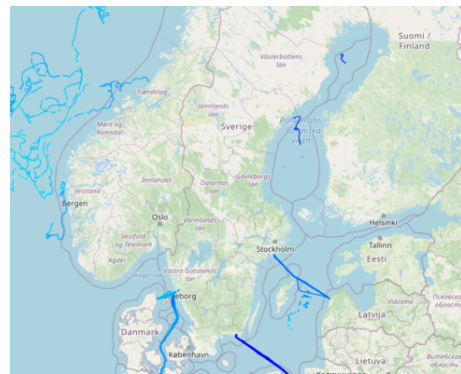
Variables: Sea water salinity (PSS)


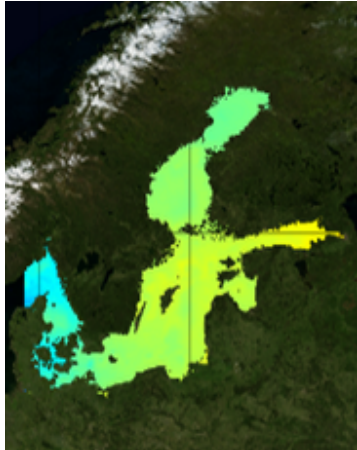
Temporal coverage: latest 60 days of measurements

Temporal resolution: near real time


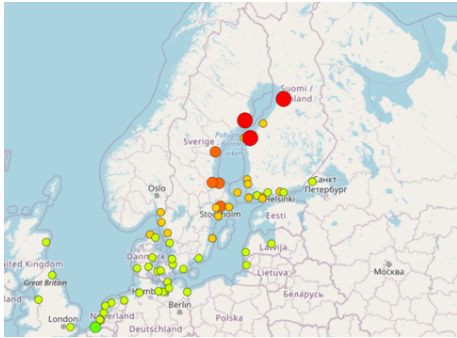
Product relevancy:


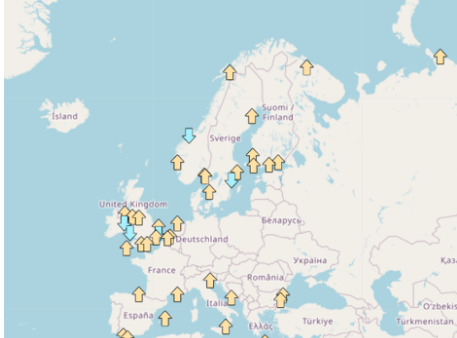
[Viewer.](#)


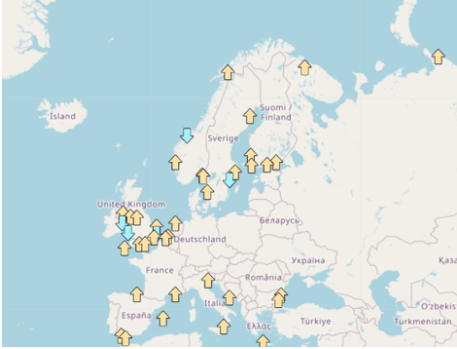

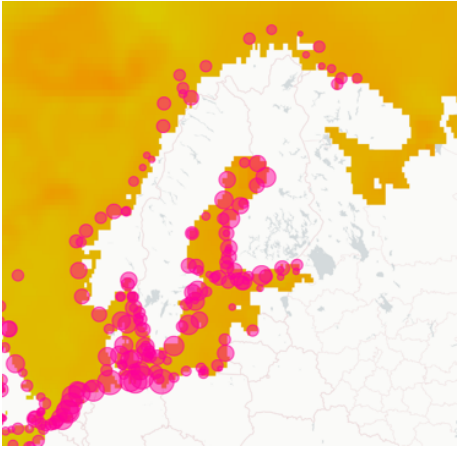

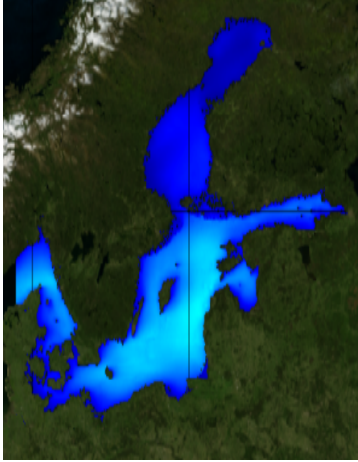


<p><b>Product name:</b> Baltic Sea water salinity reprocessed on regular model grid</p> <p><b>Type:</b> model</p> <p><b>Service source:</b> CMEMS </p> <p><b>Name ID:</b> <a href="#">BALTICSEA_REANALYSIS_PHY_003_011</a></p> <p><b>Variables:</b> salinity (S)</p> <p><b>Spatial resolution:</b> 4 km x 4 km,</p> <p><b>Temporal coverage:</b> from 1993-01-01 to 2019-12-31</p> <p><b>Temporal resolution</b> daily mean /monthly mean</p> <p><b>Update frequency:</b> irregular</p> <p><b>Product relevancy :</b> offshore to 4 km by the coast</p> <p><b>Algorithm:</b> NEMO 3.6</p> <p><a href="#">Viewer.</a></p>	
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## Sea level

<p><b>Product name:</b> EMODnet Physics - SLEV_003</p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> EMODnet Physics </p> <p><b>Name ID:</b> <a href="#">EP_MAP_SLEV_003</a></p> <p><b>Variables:</b> sea level anomalies (mm/year)</p> <p><b>Temporal coverage:</b> 1900 - 2016</p> <p><b>Temporal resolution</b> yearly</p> <p><b>Product relevancy:</b> relative sea level trends since 1900. The product is based on a PSMSL aggregated dataset.</p> <p><a href="#">Viewer.</a></p>	
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<p><b>Product name:</b> EMODnet Physics - SLEV_004</p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> EMODnet Physics </p> <p><b>Name ID:</b> <a href="#">EP_MAP_SLEV_004</a></p> <p><b>Variables:</b> Relative sea level rise vs. a recent baseline (%)</p> <p><b>Temporal coverage:</b> 2000-2019, 2005-2019, 2010-2019.</p> <p><b>Temporal resolution:</b> monthly</p> <p><a href="#">Viewer.</a></p>	
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<p>Product name: EMODnet Physics - SLEV_005</p> <p>Type: in situ Service source: EMODnet</p> <p>Physics </p> <p>Name ID: <a href="#">EP_MAP_SLEV_005</a></p> <p>Variables: sea level variation (mm/year)</p> <p>Temporal resolution monthly</p> <p><a href="#">Viewer.</a></p>	
<p>Product name: EMODnet Physics - Global Sea Level Trend</p> <p>Type: in situ and satellite altimetry</p> <p>Service source: EMODnet Physics </p> <p>Name ID: <a href="#">EP_MAP_SLEV_006</a></p> <p>Variables: Sea level (mm)</p> <p>Temporal coverage: 1993 - 2018</p> <p>Temporal resolution monthly</p> <p><a href="#">Viewer.</a></p>	
<p>Product name: <b>European Sea level reprocessed on regular grid</b></p> <p>Type: satellite</p> <p>Service source: CMEMS </p> <p>Name ID: <a href="#">SEALEVEL_EUR_PHY_L3_REP_OBSERVATIONS_008_061</a></p> <p>Variables: sea level (m)</p> <p>Spatial resolution: 7 km x 7 km,</p> <p>Temporal coverage: from 1993-01-01 to 2020-03-07</p> <p>Temporal resolution daily mean /monthly mean</p> <p>Update frequency: irregular</p> <p>Product relevancy: offshore to 4 km by the coast</p> <p>Algorithm: <a href="#">Quality information document</a></p> <p>Viewer: NA</p>	

**Product name: North Atlantic and European seas along-track high resolution L3 sea level anomalies**

Type: satellite

Service source: CMEMS 

Name ID:

[SEALEVEL\\_ATL\\_PHY\\_HR\\_L3\\_MY\\_008\\_064](#)

Variables: sea level (m)

Spatial resolution: 1.3 km x 1.3 km,

Temporal coverage: from 2016-05-26 to 2019-01-01

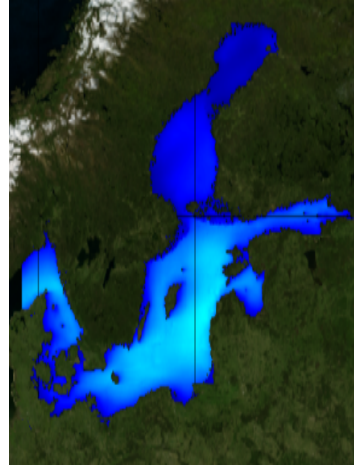
Temporal resolution instantaneous

Update frequency: annually

Product relevancy : offshore to 1.3 km by the coast

Algorithm: [Quality information document](#)

Viewer: NA



**Product name: Global ocean gridded L4 sea surface heights and derived variables reprocessed**

Type: satellite

Service source: CMEMS 

Name ID:

[SEALEVEL\\_GLO\\_PHY\\_CLIMATE\\_L4\\_REP\\_OBSERVATIONS\\_008\\_057](#)

Variables: sea level (m)

Spatial resolution: 0.25 x 0.25

Temporal coverage: from 1993-01-01 to 2020-03-07

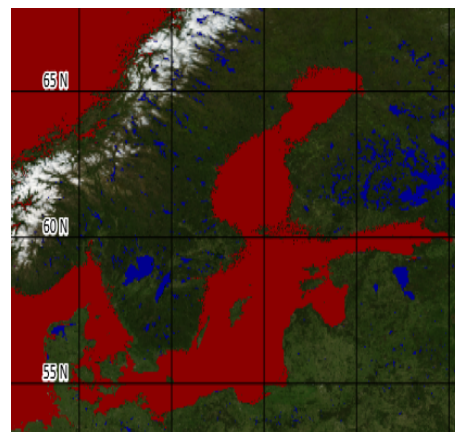
Temporal resolution pluri-annual-mean


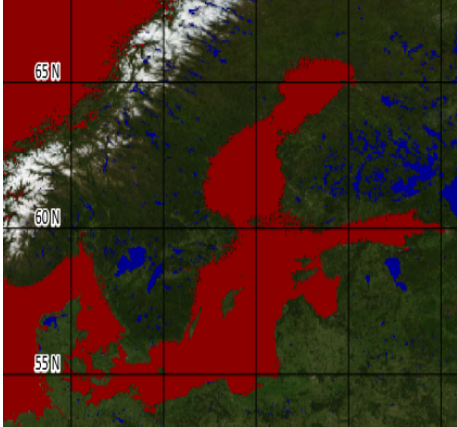

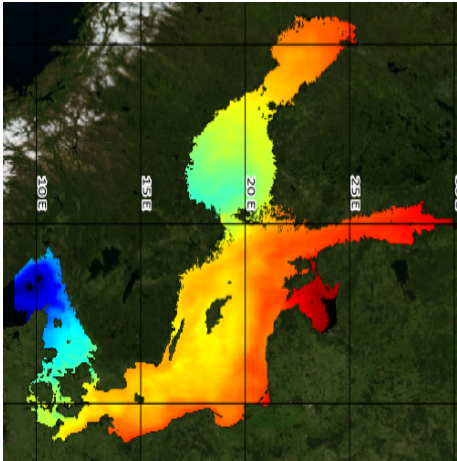
Update frequency: irregular/ annually

Product relevancy : offshore to 1 km by the coast



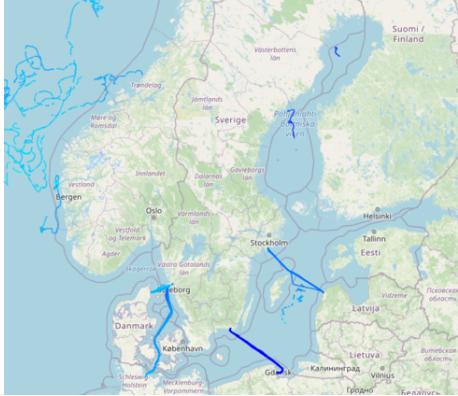
Algorithm: [Quality information document](#)


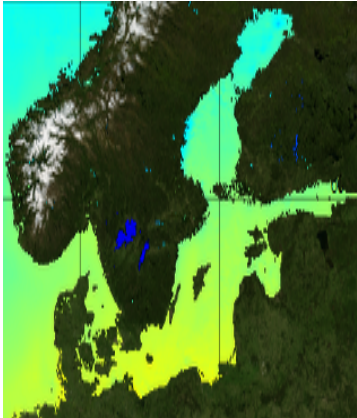
[Viewer.](#)


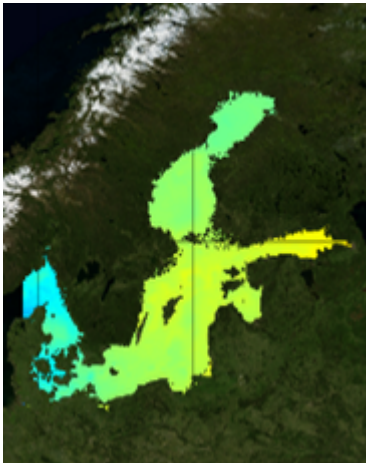


<p><b>Product name:</b> Global ocean gridded L4 sea surface heights and derived variables reprocessed (1993-ongoing)</p> <p><b>Type:</b> satellite</p> <p><b>Service source:</b> CMEMS </p> <p><b>Name ID:</b> <a href="#">SEALEVEL_GLO_PHY_L4_REP_OBSERVATIONS_008_047</a></p> <p><b>Variables:</b> sea level (m)</p> <p><b>Spatial resolution:</b> 0.25 x 0.25</p> <p><b>Temporal coverage:</b> from 1993-01-01 to 2020-03-07</p> <p><b>Temporal resolution</b> irregular/monthly</p> <p><b>Update frequency:</b> irregular/ annually</p> <p><b>Product relevancy:</b> offshore to 1 km by the coast</p> <p><b>Algorithm:</b> <a href="#">Quality information document Viewer</a></p>	
<p><b>Product name:</b> Baltic Sea level reprocessed on regular model grid</p> <p><b>Type:</b> model</p> <p><b>Service source:</b> CMEMS </p> <p><b>Name ID:</b> <a href="#">BALTICSEA_REANALYSIS_PHY_003_011</a></p> <p><b>Variables:</b> sea level (m)</p> <p><b>Spatial resolution:</b> 4 km x 4 km,</p> <p><b>Temporal coverage:</b> from 1993-01-01 to 2019-12-31</p> <p><b>Temporal resolution</b> daily mean /monthly mean</p> <p><b>Update frequency:</b> irregular</p> <p><b>Product relevancy:</b> offshore to 4 km by the coast</p> <p><b>Algorithm:</b> NEMO 3.6</p> <p><a href="#">Viewer</a></p>	

## Sea water temperature


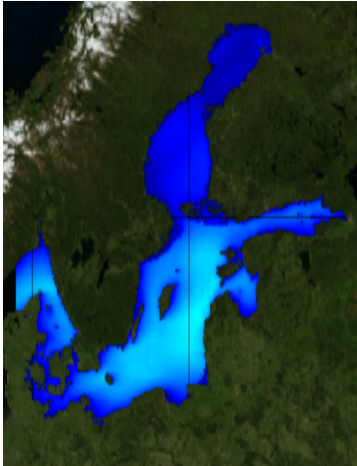
<p><b>Product name:</b> Global Ocean- Real time sea water temperature in-situ observations objective analysis in delayed mode</p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> CMEMS </p> <p><b>Name ID:</b> <a href="#">INSITU_GLO_TS_OA_NRT_OBSERVATIONS_013_002_b</a></p> <p><b>Variables:</b> sea water potential temperature (T)</p> <p><b>Spatial resolution:</b> undefined x undefined</p> <p><b>Temporal coverage:</b> from 1990-01-01 to 2019-12-31</p> <p><b>Temporal resolution:</b> instantaneous</p> <p><b>Update frequency:</b> biannual</p> <p><b>Product relevancy:</b> observations points</p> <p><b>Algorithm:</b> <a href="#">Quality information document Viewer</a>.</p>	
<p><b>Product name:</b> EMODnet Physics - TEMP_002</p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> EMODnet Physics </p> <p><b>Name ID:</b> <a href="#">EP_MAP_TEMP_002</a></p> <p><b>Variables:</b> Sea water temperature (°C)</p> <p><b>Temporal coverage:</b> latest 60 days of measurements</p> <p><b>Temporal resolution:</b> near real time</p> <p><b>Product relevancy:</b> <a href="#">Viewer</a>.</p>	


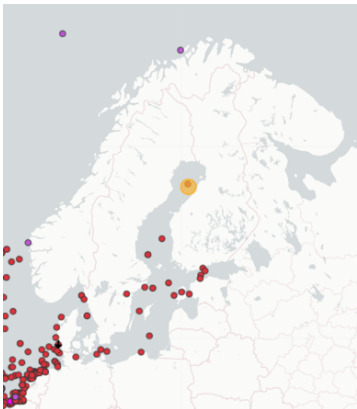
<p><b>Product name:</b> Baltic Sea- Sea Surface Temperature reprocessed observations</p> <p><b>Type:</b> satellite</p> <p><b>Service source:</b> CMEMS </p> <p><b>Name ID:</b> <a href="#">SST_BAL_SST_L4_REP_OBSERVATIONS_010_016</a></p> <p><b>Variables:</b> Sea surface temperature (SST)</p> <p><b>Spatial resolution:</b> 0.02 x 0.02</p> <p><b>Temporal coverage:</b> from 1982-01-01 to 2019-08-31</p> <p><b>Temporal resolution</b> daily mean</p> <p><b>Update frequency:</b> irregular</p> <p><b>Product relevancy:</b> offshore to 1km by the coast</p> <p><b>Algorithm:</b> DMI Operational Sea Surface Temperature and Ice Analysis System</p> <p><a href="#">Viewer.</a></p>	
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<p><b>Product name:</b> Baltic Sea water potential temperature reprocessed on regular model grid</p> <p><b>Type:</b> model</p> <p><b>Service source:</b> CMEMS </p> <p><b>Name ID:</b> <a href="#">BALTICSEA_REANALYSIS_PHY_003_011</a></p> <p><b>Variables:</b> sea water potential temperature (T)</p> <p><b>Spatial resolution:</b> 4 km x 4 km,</p> <p><b>Temporal coverage:</b> from 1993-01-01 to 2019-12-31</p> <p><b>Temporal resolution</b> daily mean /monthly mean</p> <p><b>Update frequency:</b> irregular</p> <p><b>Product relevancy:</b> offshore to 4 km by the coast</p> <p><b>Algorithm:</b> NEMO 3.6</p> <p><a href="#">Viewer.</a></p>	
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## Wave

<p><b>Product name:</b> Global Ocean - Delayed Mode <b>Wave product</b></p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> CMEMS </p> <p><b>Name ID:</b> <a href="#">INSITU_GLO_WAVE_REP_OBSERVATIONS_013_045</a></p> <p><b>Variables:</b> sea surface significant wave height</p> <p><b>Spatial resolution:</b> undefined x undefined</p> <p><b>Temporal coverage:</b> from 1990-01-01 to 2019-12-31</p> <p><b>Temporal resolution:</b> instantaneous</p> <p><b>Update frequency:</b> biannual</p> <p><b>Product relevancy:</b> at measurement points</p> <p><b>Algorithm:</b> <a href="#">Quality information document</a></p> <p><b>Viewer:</b> NA</p>	
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<p><b>Product name:</b> EMODnet Physics - <b>WAVE_001</b></p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> EMODnet Physics </p> <p><b>Name ID:</b> <a href="#">EP_MAP_WAVE_001</a></p> <p><b>Variables:</b> wave height (m); period (s); direction (degrees)</p> <p><b>Temporal coverage:</b> latest 60 days</p> <p><b>Temporal resolution:</b> daily mean</p> <p><a href="#">Viewer.</a></p>	
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**Product name:** Baltic sea surface wave from direction and stokes drift reprocessed on regular model grid

**Type:** model

**Service source:** CMEMS 

**Name ID:** [BALTICSEA REANALYSIS WAV 003 015](#)

**Variables:** sea surface wave from direction (VMODR) & stokes drift (VSDXY)

**Spatial resolution:** 2km x 2km

**Temporal coverage:** from 1993-01-01 to 2020-06-30

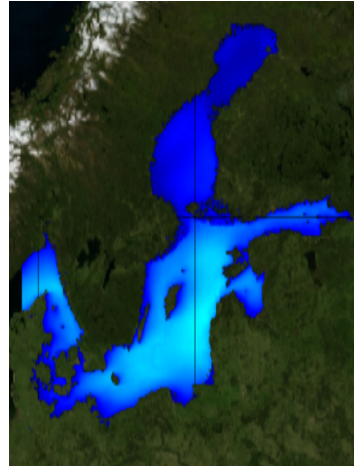
**Temporal resolution** hourly-instantaneous

**Update frequency:** irregular

**Product relevancy:** offshore to 2 km by the coast

**Algorithm:** WAM cycle 4.6.2

[Viewer.](#)



## Wind energy

**Product name:** Global Ocean wind I reprocessed on regular model grid

**Type:** satellite

**Service source:** CMEMS 

**Name ID:**

[WIND\\_GLO\\_PHY\\_CLIMATE\\_L4\\_REP\\_012\\_003](#)

**Variables:** wind

**Spatial resolution:** 25 km x 25 km,

**Temporal coverage:** from 2007-05-16 to 2019-12-31

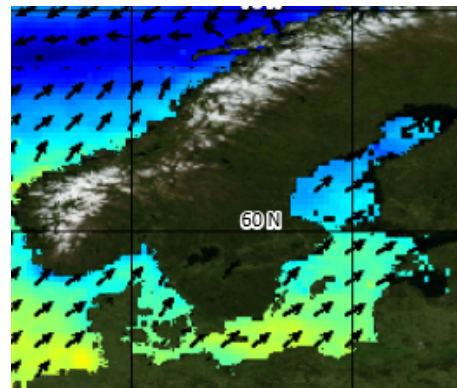
**Temporal resolution** monthly mean

**Update frequency:** irregular

**Product relevancy :** offshore to 25 km by the coast

**Algorithm:** [Quality information document](#)

[Viewer.](#)



## Zooplankton

**Product name:** Neural network modelling of Baltic zooplankton abundances L6

**Type:** in situ

**Service source:** EMODnet Biology



**Name ID:** [Neural network modelling of Baltic zooplankton abundances L6](#)

**Variables:** species abundance, dissolved oxygen, salinity, temperature, Chlorophyll concentration, bathymetry, distance from coast

**Spatial resolution:** 0.09954 x 0.09924 degrees

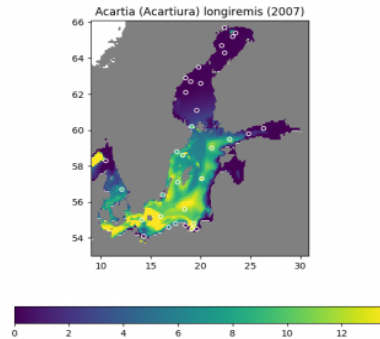
**Temporal coverage:** 2007-2013

**Temporal resolution:** yearly

**Update frequency:** NA

**Product relevancy:**

**Viewer:** NA



**Product name:** Global ocean low and mid trophic levels biomass hindcast on regular model grid

**Type:** model

**Service source:** CMEMS

**Name ID:** [GLOBAL\\_REANALYSIS\\_BIO\\_001\\_033](#)

**Variables:** low and mid trophic level

**Spatial resolution:** 25 km x 25 km, 56 depth levels

**Temporal coverage:** from 1998-01-07 to 2019-06-26

**Temporal resolution:** weekly mean

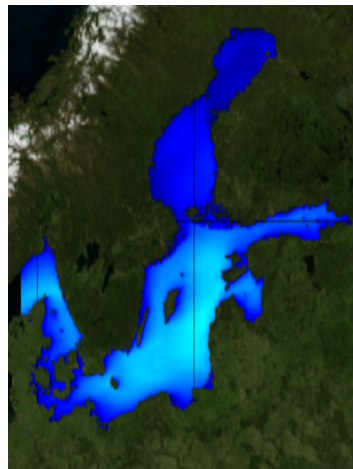
**Update frequency:** yearly

**Product relevancy:** offshore to 25 km by the coast

**Algorithm:**

[Quality information document](#)

[Viewer](#)



## Product relevant for D2, Non-indigenous species

### Invasive Polychaete *Marenzelleria*

**Product name:** Gridded abundance map of the invasive Polychaete *Marenzelleria* in the Baltic Sea L6

**Type:** model

**Service source:** EMODnet Biology 

**Name ID:**

[Gridded abundance map of the invasive Polychaete \*Marenzelleria\* in the Baltic Sea L6](#)

**Variables:** species abundance

**Spatial resolution:** 0.04143 x 0.04133 degrees

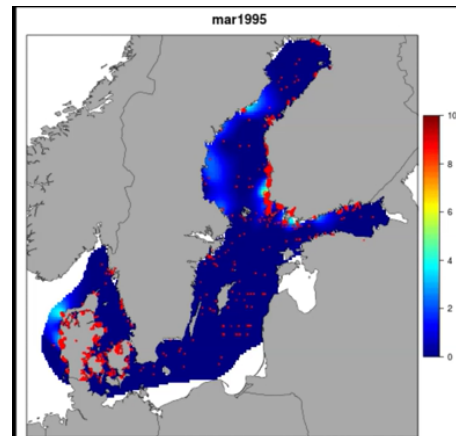
**Temporal coverage:** 1987-2013

**Temporal resolution:** yearly

**Update frequency:** NA

**Product relevancy:**

**Viewer:** NA



### Route density

**Product name:** Route density

**Type:** data product

**Service source:** EMODnet Human Activities 

**Name ID:** [Route density](#)

**Variables:** ship type, routes per square kilometre per month

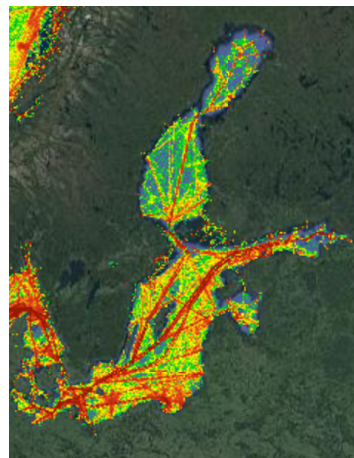
**Temporal coverage:** 2019-2021

**Temporal resolution:** month, season, year

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)



## Vessel density

**Product name:** Vessel density

**Type:** data product

**Service source:** EMODnet Human Activities



**Name ID:** [Vessel density](#)

**Variables:** ship type, hours per square kilometre per month

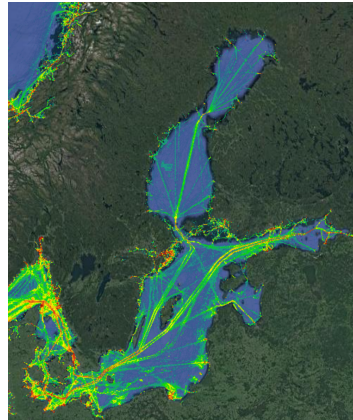
**Temporal coverage:** 2017-2020

**Temporal resolution:** month, year

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)



## Product relevant for D3, Commercial fish and shellfish

### Fish catches

**Product name:** Fish catches by FAO statistical area

**Type:** data set

**Service source:** EMODnet Human Activities



**Name ID:** [Fish catches by FAO statistical area](#)

**Variables:** area code, level, year, fish commodity group, fish main commercial species, fish species, quantity in tonnes

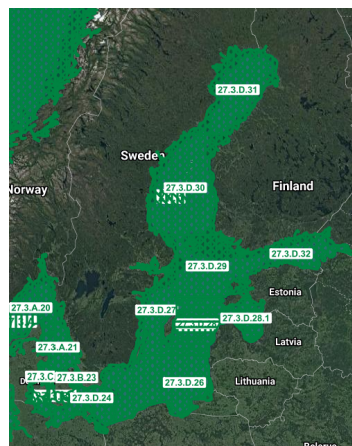
**Temporal coverage:** 1950-2017

**Temporal resolution:** year


**Update frequency:** yearly

**Product relevancy:** from coast to open sea


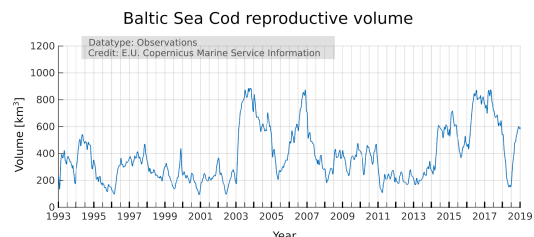




[Viewer.](#)



## Fishing intensity


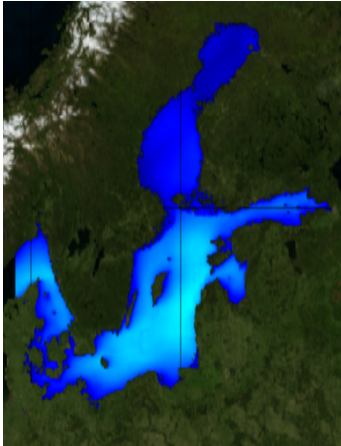
<p><b>Product name:</b> Fishing intensity</p> <p><b>Type:</b> data set</p> <p><b>Service source:</b> EMODnet Human Activities </p> <p><b>Name ID:</b> <a href="#">Fishing intensity</a></p> <p><b>Variables:</b> vessel type, average MW fishing hours</p> <p><b>Temporal coverage:</b> 2015-2018</p> <p><b>Temporal resolution:</b> n.a.</p> <p><b>Update frequency:</b> yearly</p> <p><b>Product relevancy:</b> from coast to open sea</p> <p><a href="#">Viewer</a></p>	<p><b>Baltic Sea not covered yet</b></p>
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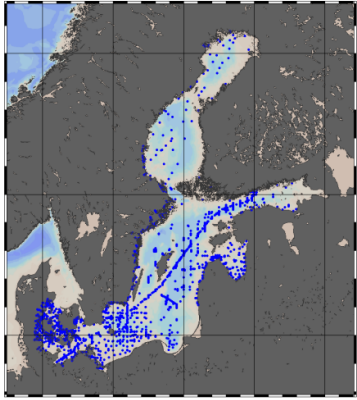
## Reproductive volume

<p><b>Product name:</b> Baltic sea cod reproductive volume Indicator</p> <p><b>Type:</b> satellite</p> <p><b>Service source:</b> CMEMS </p> <p><b>Name ID:</b> <a href="#">BALTIC_OMI_HEALTH_codt_volume</a></p> <p><b>Variables:</b> Sea cod</p> <p><b>Spatial resolution:</b> undefined x undefined</p> <p><b>Temporal coverage:</b> from 1901-01-01 to 1901-01-01</p> <p><b>Temporal resolution:</b> 1 year</p> <p><b>Update frequency:</b> annual</p> <p><a href="#">viewer</a></p>	 <p style="text-align: center;">Baltic Sea Cod reproductive volume</p> <p style="text-align: center;">Datatype: Observations Credit: E.U. Copernicus Marine Service Information</p> <p style="text-align: center;">     </p>
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## Products relevant for D5, Eutrophication

### Chlorophyll-a (Chl)

<p><b>Product name:</b> Global Ocean - Delayed Mode Biogeochemical product</p> <p><b>Type:</b> in-situ</p> <p><b>Service source:</b> CMEMS </p> <p><b>Name ID:</b> <a href="#">INSITU_GLO_BGC_REP_OBSERVATIONS_013_04_6</a></p> <p><b>Variables:</b> chlorophyll-a (CHL)</p> <p><b>Spatial resolution:</b> undefined x undefined</p> <p><b>Temporal coverage:</b> from 1990-01-01 to 2019-12-31</p> <p><b>Temporal resolution :</b> instantaneous</p> <p><b>Update frequency:</b> annually</p> <p><b>Product relevancy :</b> at measurement points</p> <p><b>Algorithm:</b> <a href="#">Quality information document</a></p> <p><b>Viewer:</b> NA</p>	
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<p><b>Product name:</b> Baltic sea surface and depth reprocessed chlorophyll at measurement points</p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> EMODnet Chemistry </p> <p><b>Name ID:</b> <a href="#">Eutrophication and Acidity aggregated datasets v2018</a></p> <p><b>Variables:</b> chlorophyll-a (<math>\text{mg}\cdot\text{m}^{-3}</math>)</p> <p><b>Spatial resolution:</b> at measurement point, all water depths</p> <p><b>Temporal coverage:</b> 1974 to 2017</p> <p><b>Temporal resolution:</b> instantaneous</p> <p><b>Update frequency:</b> yearly or biannual</p> <p><b>Product relevancy:</b> at measurement points</p>	
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**Product name: Baltic sea surface and depth 6-year analysis chlorophyll interpolated on regular grid**

Type: in situ

Service source: EMODnet Chemistry 

Name ID: [DIVA 4D 6-year analysis of Water body chlorophyll-a](#)

Variable: chlorophyll-a (mg.m<sup>-3</sup>)

Spatial resolution: 11km x 11km, 21 nominal standard depth levels

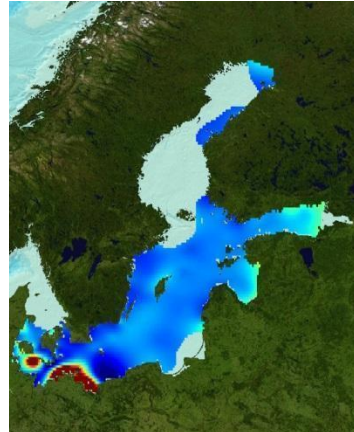
Temporal coverage: 1979-12-18 to 2016-02-22

Temporal resolution: seasonal per year

Update frequency: yearly or biannual

Product relevancy: from coast to open sea

[Viewer.](#)



**Product name: Global Ocean chlorophyll reprocessed on regular grid**

Type: in situ and satellite

Service source: CMEMS 

Name ID:

[MULTIOBS\\_GLO\\_BIO\\_BGC\\_3D\\_REP\\_015\\_010](#)

Variables: chlorophyll

Spatial resolution: 25 km x 25 km,

Temporal coverage: from 1998-01-01 to present

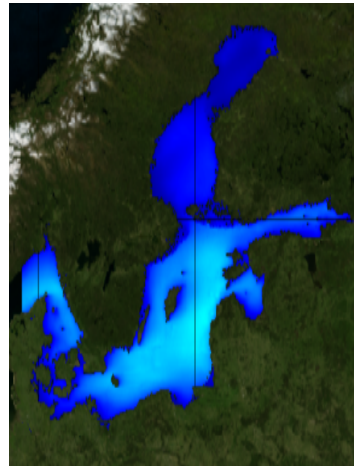
Temporal resolution weekly mean /monthly mean

Update frequency: irregular


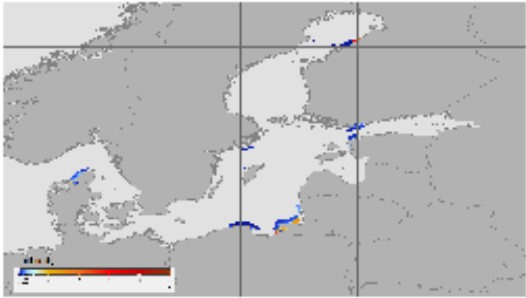

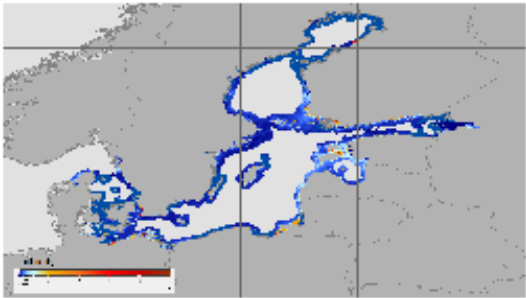
Product relevancy: offshore to 25 km by the coast


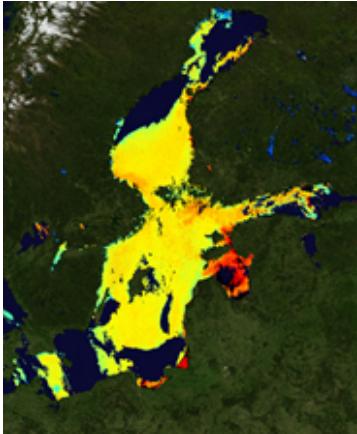

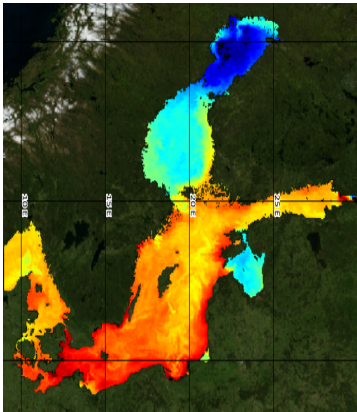
Algorithm: SOCA2020:multi-layer-perceptron (MPL) merging satellite and Argo data

[Viewer.](#)





<p><b>Product name: Baltic Sea Bio-Geo-Chemical L3</b>  <b>High Resolution daily observation</b>  Type: satellite  Service source: CMEMS   Name ID:  <a href="#">OCEANCOLOUR_BAL_BGC_HR_L3_NRT_009_202</a>  <a href="#">2</a>  Variables: chlorophyll-a (<math>\text{mg}\cdot\text{m}^{-3}</math>), turbidity  Spatial resolution: 100m x 100m, surface  Temporal coverage: 2020-01-01 to ongoing  Temporal resolution: daily mean  Update frequency: daily  Product relevancy: high resolution product from coast to 20km offshore  Algorithm: Sentinel-2  Viewer: NA</p>	
<p><b>Product name: Baltic Sea Bio-Geo-Chemical L4</b>  <b>High Resolution daily observation</b>  Type: satellite  Service source: CMEMS   Name ID:  <a href="#">OCEANCOLOUR_BAL_BGC_HR_L3_NRT_009_20</a>  <a href="#">8</a>  Variables: chlorophyll-a (<math>\text{mg}\cdot\text{m}^{-3}</math>), turbidity  Spatial resolution: 100m x 100m, surface  Temporal coverage: 2020-01-01 to ongoing  Temporal resolution: daily, monthly, quarterly mean  Update frequency: daily  Product relevancy: high resolution product from coast to 20km offshore  Algorithm: Sentinel-2  Viewer:NA</p>	

<p><b>Product name:</b> Baltic Sea surface reprocessed chlorophyll L3</p> <p><b>Type:</b> satellite</p> <p><b>Service source:</b> CMEMS </p> <p><b>Name ID:</b> <a href="#">OCEANCOLOUR_BAL_CHL_L3_REP_OBSERVATIO NS_009_080</a></p> <p><b>Variables:</b> chlorophyll-a (<math>\text{mg}\cdot\text{m}^{-3}</math>)</p> <p><b>Spatial resolution:</b> 1km x 1 km, surface</p> <p><b>Temporal coverage:</b> 1997-09-04 to 2017-12-19</p> <p><b>Temporal resolution:</b> daily mean</p> <p><b>Update frequency:</b> yearly &amp; daily</p> <p><b>Product relevancy:</b> clear water, offshore to 1km at the coast</p> <p><b>Algorithm:</b> Regional Multi Layer Perceptron neural-net (MLPBLTS)</p> <p><a href="#">Viewer.</a></p>	
<p><b>Product name:</b> Baltic Sea surface and depth delayed time chlorophyll on regular model grid</p> <p><b>Type:</b> model</p> <p><b>Service source:</b> CMEMS </p> <p><b>Name ID:</b> <a href="#">BALTICSEA_REANALYSIS_BIO_003_012</a></p> <p><b>Variables:</b> chlorophyll-a (<math>\text{mg}\cdot\text{m}^{-3}</math>)</p> <p><b>Spatial resolution:</b> 4 km x 4 km, 56 depth levels</p> <p><b>Temporal coverage:</b> From 1993-01-01 to 2019-12-31</p> <p><b>Temporal resolution</b> monthly mean / daily mean /</p> <p><b>Update frequency:</b> monthly / daily</p> <p><b>Product relevancy :</b> offshore to 2 km by the coast</p> <p><b>Algorithm:</b> BAL MFC-ERGOM coupled with NEMO 4.0</p> <p><a href="#">Viewer.</a></p>	

## Dissolved inorganic nitrogen (DIN)

**Product name:** Baltic Sea surface and depth reprocessed dissolved inorganic nitrogen at measurement points

**Type:** in situ

**Service source:** EMODnet Chemistry 

**Name ID:** [Eutrophication and Ocean Acidity aggregated datasets v2018](#)

**Variables:** dissolved inorganic nitrogen -DIN ( $\mu\text{mol/l}$ )

**Spatial resolution:** at measurement point, all water depths

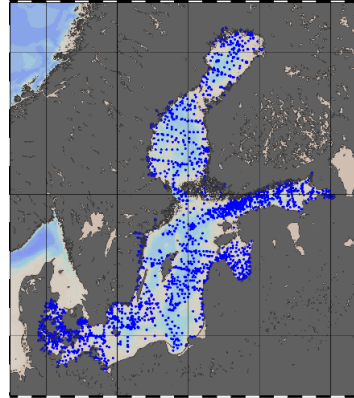
**Temporal coverage:** 1968 to 2017

**Temporal resolution:** instantaneous

**Update frequency:** yearly or biannual

**Product relevancy:** at measurement points

**Viewer:** NA



**Product name:** Baltic sea surface and depth 6-year analysis dissolved inorganic nitrogen interpolated on regular grid

**Type:** in situ

**Service source:** EMODnet Chemistry 

**Name ID:** [DIVA 4D 6-year analysis of Water body dissolved inorganic nitrogen \(DIN\)](#)

**Variables:** dissolved inorganic nitrogen -DIN ( $\mu\text{mol/l}$ )

**Spatial resolution:** 11km x 11km, 21 nominal standard depth levels

**Temporal coverage:** 1979-12-04 to 2016-02-24


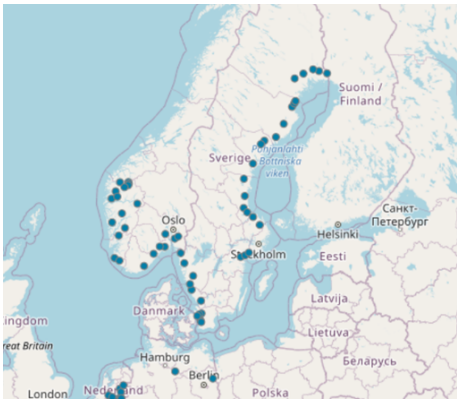
**Temporal resolution:** seasonal per year

**Update frequency:** yearly or biannual


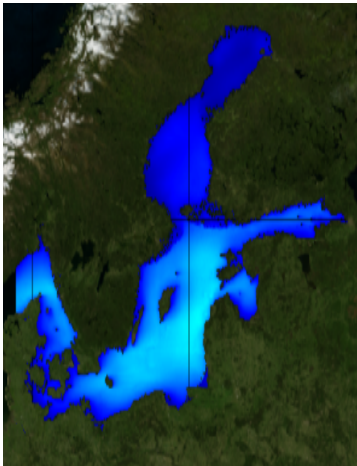
**Product relevancy:** from coast to open sea


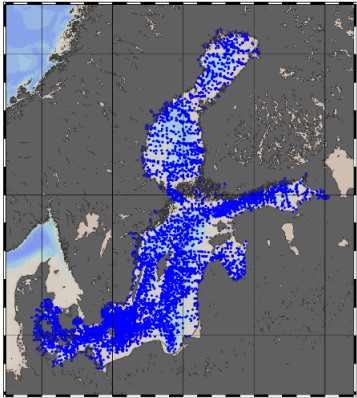

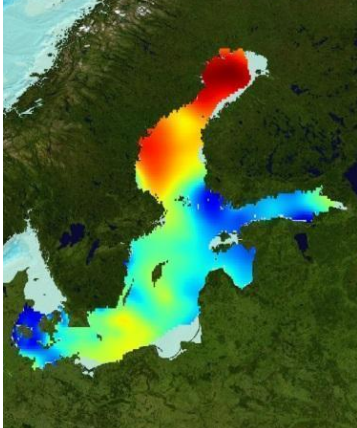
[Viewer.](#)



<p><b>Product name:</b> EMODnet Physics – River <b>Runoff</b></p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> EMODnet Physics </p> <p><b>Name ID:</b> <a href="#">EP_MAP_RFVL</a></p> <p><b>Variables:</b> outflow (m<sup>3</sup>/s)</p> <p><b>Temporal coverage:</b> 2021</p> <p><b>Temporal resolution:</b> daily</p> <p><a href="#">Viewer.</a></p>	
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## Dissolved oxygen (O2)

<p><b>Product name:</b> Global Ocean - Delayed Mode <b>Biogeochemical product</b></p> <p><b>Type:</b> in-situ</p> <p><b>Service source:</b> CMEMS </p> <p><b>Name ID:</b> <a href="#">INSITU_GLO_BGC_REP_OBSERVATIONS_013_04_6</a></p> <p><b>Variables:</b> oxygen (O2)</p> <p><b>Spatial resolution:</b> undefined x undefined</p> <p><b>Temporal coverage:</b> from 1990-01-01 to 2019-12-31</p> <p><b>Temporal resolution :</b> instantaneous</p> <p><b>Update frequency:</b> annually</p> <p><b>Product relevancy :</b> at measurement points</p> <p><b>Algorithm:</b> <a href="#">Quality information document</a></p> <p><b>Viewer:</b> NA</p>	
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<p><b>Product name:</b> Baltic Sea surface and depth reprocessed dissolved oxygen at measurement points</p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> EMODnet Chemistry </p> <p><b>Name ID:</b> <a href="#">Eutrophication and Ocean Acidity aggregated datasets v2018</a></p> <p><b>Variables:</b> dissolved oxygen (<math>\mu\text{mol/l}</math>)</p> <p><b>Spatial resolution:</b> at measurement point, all water depths</p> <p><b>Temporal coverage:</b> 1902 to 2017</p> <p><b>Temporal resolution:</b> instantaneous</p> <p><b>Update frequency:</b> yearly or biannual</p> <p><b>Product relevancy:</b> at measurement points</p> <p><b>Viewer:</b> NA</p>	
<p><b>Product name:</b> Baltic sea surface and depth 6-year analysis dissolved oxygen interpolated on regular grid</p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> EMODnet Chemistry </p> <p><b>Name ID:</b> <a href="#">DIVA 4D 6-year analysis of Water body dissolved oxygen concentration</a></p> <p><b>Variables:</b> dissolved oxygen (<math>\mu\text{mol/l}</math>)</p> <p><b>Spatial resolution:</b> 11km x 11km, 21 nominal standard depth levels</p> <p><b>Temporal coverage:</b> 1979-12-04 to 2016-02-29</p> <p><b>Temporal resolution:</b> seasonal per year</p> <p><b>Update frequency:</b> yearly or biannual</p> <p><b>Product relevancy:</b> from coast to open sea</p> <p><a href="#">Viewer.</a></p>	

**Product name:** Baltic Sea seafloor 6-year analysis dissolved oxygen interpolated on regular grid

**Type:** in situ

**Service source:** EMODnet Chemistry 

**Name ID:** [DIVA 4D 6-year analysis of Water body dissolved oxygen concentration](#)

**Variables:** dissolved oxygen ( $\mu\text{mol/l}$ )

**Spatial resolution:** 11km x 11 km, deepest water depth

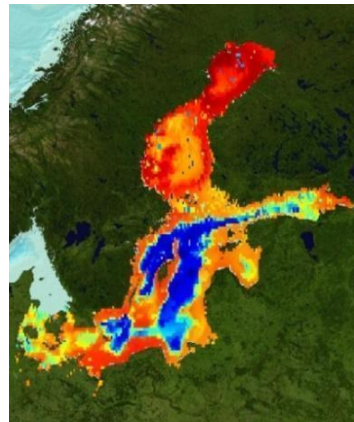
**Temporal coverage:** 1979-12-04 to 2016-02-29

**Temporal resolution:** seasonal per year

**Update frequency:** yearly or biannual

**Product relevancy:** from coast to open sea

[Viewer.](#)



**Product name:** Global Ocean nutrients profiles reprocessed

**Type:** in situ and satellite

**Service source:** CMEMS 

**Name ID:**

[MULTIOBS\\_GLO\\_BIO\\_NUTRIENTS\\_PROFILES\\_RE\\_P\\_015\\_009](#)

**Variables:** oxygen (O<sub>2</sub>)

**Spatial resolution:** undefined x undefined

**Temporal coverage:** From 2004-06-01 to 2019-06-30

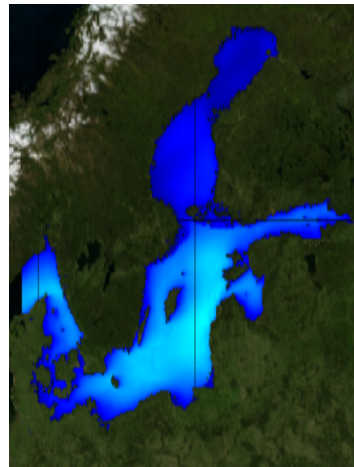
**Temporal resolution :** instantaneous

**Update frequency:** irregular

**Product relevancy:** no data in the Baltic Sea

**Algorithm:** CANYON (Carbonate system and Nutrients concentration from hYdrological properties and Oxygen using a Neural-network)

**Viewer:** NA



**Product name:** Baltic Sea surface and depth delayed time dissolved oxygen on regular model grid

**Type:** model

**Service source:** CMEMS 

**Name ID:** [BALTICSEA\\_REANALYSIS\\_BIO\\_003\\_012](#)

**Variables:** dissolved oxygen ( $\mu\text{mol/l}$ )

**Spatial resolution:** 4 km x 4 km, 56 depth levels

**Temporal coverage:** From 1993-01-01 to 2019-12-31

**Temporal resolution** monthly mean / daily mean /

**Update frequency:** monthly / daily

**Product relevancy:** offshore to 2 km by the coast

**Algorithm:** BAL MFC-ERGOM coupled with NEMO 4.0

[Viewer.](#)



## Nitrate (NO3)

**Product name:** Baltic sea surface and depth reprocessed nitrate at measurement points

**Type:** in situ

**Service source:** EMODnet Chemistry 

**Name ID:** [Eutrophication and Ocean Acidity aggregated datasets v2018](#)

**Variables:** nitrate ( $\mu\text{mol/l}$ )

**Spatial resolution:** at measurement point, all water depths

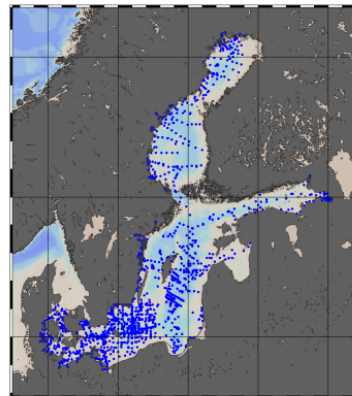
**Temporal coverage:** 1968 to 2016


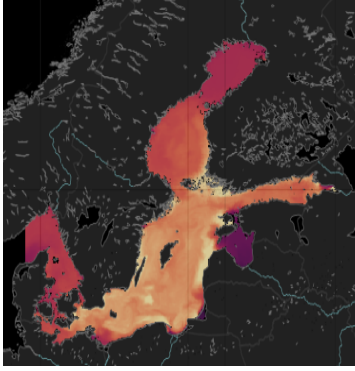
**Temporal resolution:** instantaneous

**Update frequency:** yearly or biannual


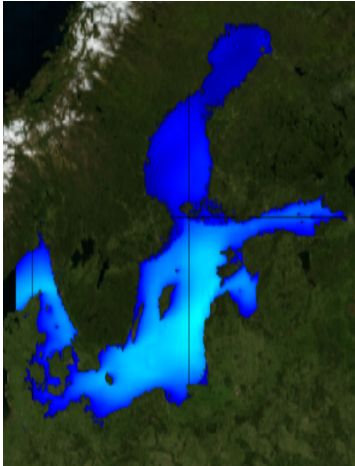
**Product relevancy:** at measurement points

**Viewer:** NA



<p><b>Product name:</b> Baltic Sea surface and depth reprocessed nitrate on regular model grid</p> <p><b>Type:</b> model</p> <p><b>Service source:</b> CMEMS </p> <p><b>Name ID:</b> <a href="#">BALTICSEA_REANALYSIS_BIO_003_012</a></p> <p><b>Variables:</b> nitrate (<math>\mu\text{mol/l}</math>)</p> <p><b>Spatial resolution:</b> 2 km x 2 km, 25 depth levels</p> <p><b>Temporal coverage:</b> 2017-10-10 – present</p> <p><b>Temporal resolution</b> monthly mean / daily mean / hourly instantaneous</p> <p><b>Update frequency:</b> monthly / daily / twice per day</p> <p><b>Product relevancy:</b> offshore to 2 km by the coast</p> <p><b>Algorithm:</b> NEMO3.6-SCOBI</p> <p><a href="#">Viewer.</a></p>	
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## Nutrients

<p><b>Product name:</b> Global Ocean - Delayed Mode Biogeochemical product</p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> CMEMS </p> <p><b>Name ID:</b> <a href="#">INSITU_GLO_BGC_REP_OBSERVATIONS_013_046</a></p> <p><b>Variables:</b> nutrients</p> <p><b>Spatial resolution:</b> undefined x undefined</p> <p><b>Temporal coverage:</b> from 1990-01-01 to 2019-12-31</p> <p><b>Temporal resolution :</b> instantaneous</p> <p><b>Update frequency:</b> annually</p> <p><b>Product relevancy:</b> at measurement points</p> <p><b>Algorithm:</b> <a href="#">Quality information document</a></p> <p><b>Viewer:</b> NA</p>	
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**Product name: Global Ocean nutrients profiles reprocessed**

Type: in situ and satellite

Service source: CMEMS 

Name ID:

[MULTIOBS\\_GLO\\_BIO\\_NUTRIENTS\\_PROFILES\\_REP\\_015\\_009](#)

Variables: nutrients

Spatial resolution: undefined x undefined

Temporal coverage: From 2004-06-01 to 2019-06-30

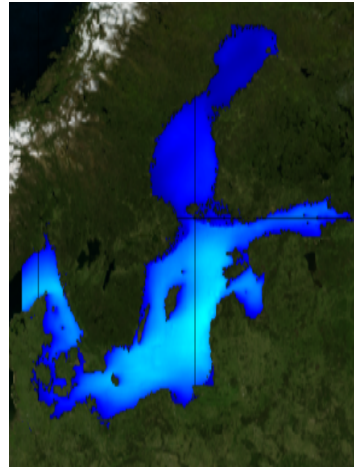
Temporal resolution : instantaneous

Update frequency: irregular

Product relevancy: no data in the Baltic Sea

Algorithm: CANYON (Carbonate system and Nutrients concentration from hydrological properties and Oxygen using a Neural-network)

Viewer: NA



**Product name: Baltic sea biogeochemistry reanalysis**

Type: model

Service source: CMEMS 

Name ID: [BALTICSEA\\_REANALYSIS\\_BIO\\_003\\_012](#)

Variables: nutrients

Spatial resolution: 4 km x 4 km

Temporal coverage: from 1993-01-01 to 2019-12-31

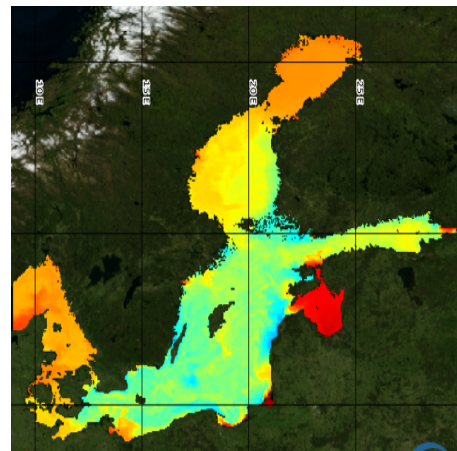
Temporal resolution : daily and monthly mean

Update frequency: irregular


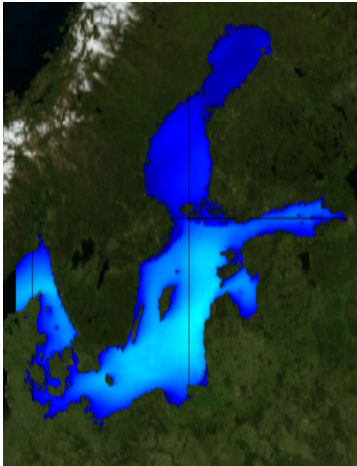

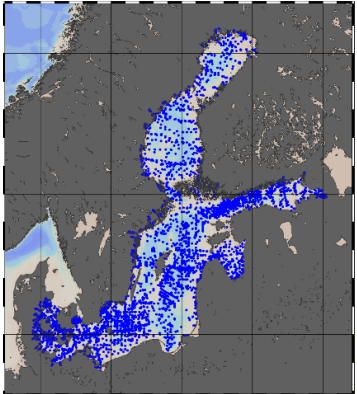
Product relevancy: from offshore to 4 km to the coast

Algorithm: NEMO3.6-SCOBI

[Viewer.](#)



## Phosphate (P04)

<p><b>Product name:</b> Global Ocean - Delayed Mode Biogeochemical product</p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> CMEMS </p> <p><b>Name ID:</b> <a href="#">INSITU_GLO_BGC_REP_OBSERVATIONS_013_04_6</a></p> <p><b>Variables:</b> Phosphate (PO4)</p> <p><b>Spatial resolution:</b> undefined x undefined</p> <p><b>Temporal coverage:</b> from 1990-01-01 to 2019-12-31</p> <p><b>Temporal resolution :</b> instantaneous</p> <p><b>Update frequency:</b> annually</p> <p><b>Product relevancy:</b> at measurement points</p> <p><b>Algorithm:</b> <a href="#">Quality information document</a></p> <p><b>Viewer:</b> NA</p>	
<p><b>Product name:</b> Baltic sea surface and depth reprocessed phosphate at measurement points</p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> EMODnet Chemistry </p> <p><b>Name ID:</b> <a href="#">Eutrophication and Ocean Acidity aggregated datasets v2018</a></p> <p><b>Variables:</b> phosphate (<math>\mu\text{mol/l}</math>)</p> <p><b>Spatial resolution:</b> at measurement point, all water depths</p> <p><b>Temporal coverage:</b> 1930 to 2017</p> <p><b>Temporal resolution:</b> instantaneous</p> <p><b>Update frequency:</b> yearly or biannual</p> <p><b>Product relevancy:</b> at measurement points</p> <p><b>Viewer:</b> NA</p>	

**Product name:** Baltic sea surface and depth  
**6-year analysis phosphate interpolated on  
regular grid**

**Type:** in situ

**Service source:** EMODnet Chemistry 

**Name ID:** [DIVA 4D 6-year analysis of Water body  
phosphate. DOI:  
10.6092/f64f4e30-c243-11e8-8625-5ce0c5469b  
c7](#)

**Variables:** phosphate ( $\mu\text{mol/l}$ )

**Spatial resolution:** 11km x 11km, 21 nominal  
standard depth levels

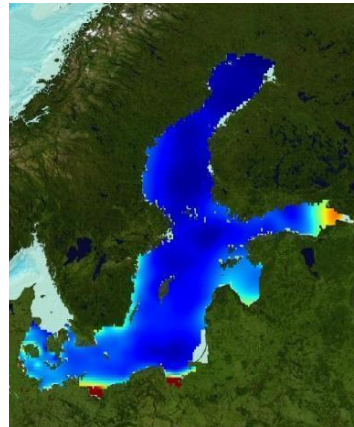
**Temporal coverage:** 1979-12-04 to 2016-02-24

**Temporal resolution:** seasonal per year

**Update frequency:** yearly or biannual

**Product relevancy:** from coast to open sea

[Viewer.](#)



**Product name:** Global Ocean nutrients profiles  
**reprocessed**

**Type:** in situ and satellite

**Service source:** CMEMS 

**Name ID:**

[MULTIOBS\\_GLO\\_BIO\\_NUTRIENTS\\_PROFILES\\_RE  
P\\_015\\_009](#)

**Variables:** Phosphate (PO<sub>4</sub>)

**Spatial resolution:** undefined x undefined

**Temporal coverage:** From 2004-06-01 to  
2019-06-30

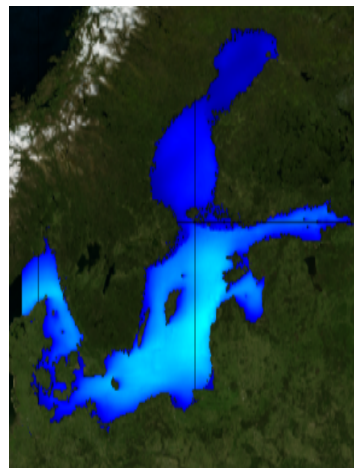
**Temporal resolution :** instantaneous


**Update frequency:** irregular

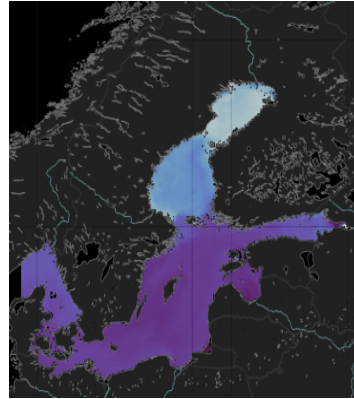
**Product relevancy:** no data in the Baltic Sea

**Algorithm:** CANYON (Carbonate system and  
Nutrients concentration from hYdrological  
properties and Oxygen using a Neural-network)


**Viewer:** NA

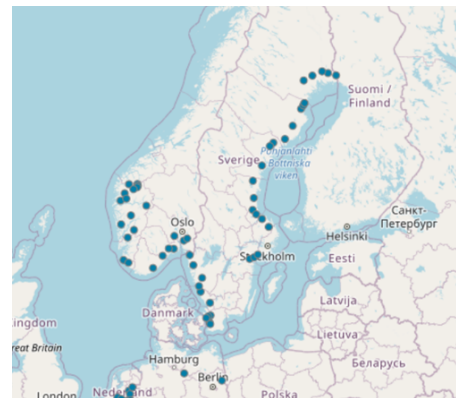


**Product name:** Baltic Sea surface and depth reprocessed phosphate on regular model grid  
**Type:** model  
**Service source:** CMEMS   
**Name ID:** [BALTICSEA\\_REANALYSIS\\_BIO\\_003\\_012](#)  
**Variables:** phosphate ( $\mu\text{mol/l}$ )  
**Spatial resolution:** 2 km x 2 km, 25 depth levels  
**Temporal coverage:** 2017-10-10 – present  
**Temporal resolution** monthly mean / daily mean / hourly instantaneous  
**Update frequency:** monthly / daily / twice per day  
**Product relevancy:** offshore to 2 km by the coast  
**Algorithm:** NEMO3.6-SCOBI  
[Viewer.](#)


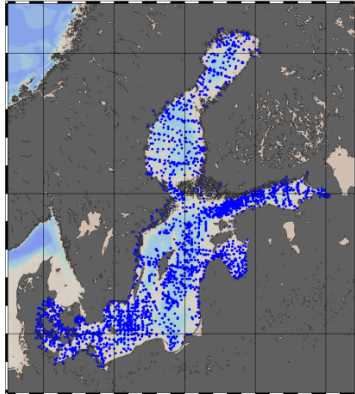




## River runoff


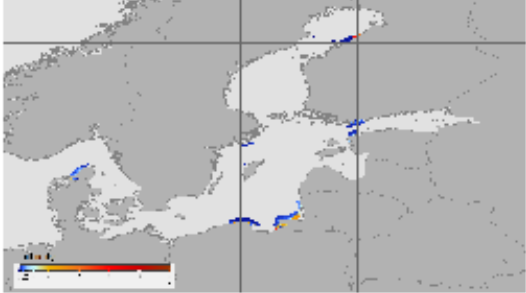


**Product name:** EMODnet Physics – River Runoff  
**Type:** in situ  
**Service source:** EMODnet Physics   
**Name ID:** [EP\\_MAP\\_RFVL](#)  
**Variables:** outflow ( $\text{m}^3/\text{s}$ )  
**Temporal coverage:** 2021  
**Temporal resolution:** daily  
[Viewer.](#)



## Silicate (Si)

<p><b>Product name:</b> Baltic Sea surface and depth reprocessed silicate at measurement points</p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> EMODnet Chemistry </p> <p><b>Name ID:</b> <a href="#">Eutrophication and Ocean Acidity aggregated datasets v2018</a></p> <p><b>Variables:</b> silicate (<math>\mu\text{mol/l}</math>)</p> <p><b>Spatial resolution:</b> at measurement point, all water depths</p> <p><b>Temporal coverage:</b> 1962 to 2017</p> <p><b>Temporal resolution:</b> instantaneous</p> <p><b>Update frequency:</b> yearly or biannual</p> <p><b>Product relevancy:</b> at measurement points</p> <p><b>Viewer:</b> NA</p>	
<p><b>Product name:</b> Baltic sea surface and depth 6-year analysis silicate on regular interpolated grid</p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> EMODnet Chemistry </p> <p><b>Name ID:</b> <a href="#">DIVA 4D 6-year analysis of Water body silicate 1980/2016 v2018</a></p> <p><b>Variables:</b> silicate (<math>\mu\text{mol/l}</math>)</p> <p><b>Spatial resolution:</b> 11km x 11km, 21 nominal standard depth levels</p> <p><b>Temporal coverage:</b> 1979-12-04 to 2016-02-24</p> <p><b>Temporal resolution:</b> seasonal per year</p> <p><b>Update frequency:</b> yearly or biannual</p> <p><b>Product relevancy:</b> from coast to open sea</p> <p><a href="#">Viewer.</a></p>	

## Turbidity

<p><b>Product name: Baltic Sea Bio-Geo-Chemical L3 High Resolution daily observation</b></p> <p>Type: satellite</p> <p>Service source: CMEMS </p> <p>Name ID: <a href="#">OCEANCOLOUR_BAL_BGC_HR_L3_NRT_009_202</a></p> <p>Variables: chlorophyll-a (<math>\text{mg.m}^{-3}</math>), turbidity</p> <p>Spatial resolution: 100m x 100m, surface</p> <p>Temporal coverage: 2020-01-01 to ongoing</p> <p>Temporal resolution: daily mean</p> <p>Update frequency: daily</p> <p>Product relevancy: high resolution product from coast to 20km offshore</p> <p>Algorithm: Sentinel-2</p> <p>Viewer: NA</p>	
<p><b>Product name: Baltic Sea Bio-Geo-Chemical L4 High Resolution daily observation</b></p> <p>Type: satellite</p> <p>Service source: CMEMS </p> <p>Name ID: <a href="#">OCEANCOLOUR_BAL_BGC_HR_L3_NRT_009_208</a></p> <p>Variables: chlorophyll-a (<math>\text{mg.m}^{-3}</math>), turbidity</p> <p>Spatial resolution: 100m x 100m, surface</p> <p>Temporal coverage: 2020-01-01 to ongoing</p> <p>Temporal resolution: daily, monthly, quarterly mean</p> <p>Update frequency: daily</p> <p>Product relevancy: high resolution product from coast to 20km offshore</p> <p>Algorithm: Sentinel-2</p> <p>Viewer:NA</p>	

## Product relevant for D6, Seafloor integrity

### Boreholes

**Product name:** Boreholes

**Type:** data set

**Service source:** EMODnet Human Activities



**Name ID:** [Boreholes](#)

**Variables:** status, country, distance to coast, drilling company, fluid type, name, operator, purpose of drilling, water depth, year

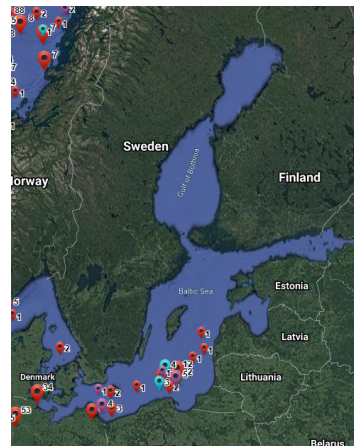
**Temporal coverage:** n/a

**Temporal resolution:** year

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)



### Dredging

**Product name:** Dredging

**Type:** data set

**Service source:** EMODnet Human Activities



**Name ID:** [Dredging](#)

**Variables:** country, end use, extracted amount in m3, extracted amount in tonnes, extraction area, link to web source, material type, permitted amount in m3, permitted amount in tonnes, position information, purpose, sea basin, year

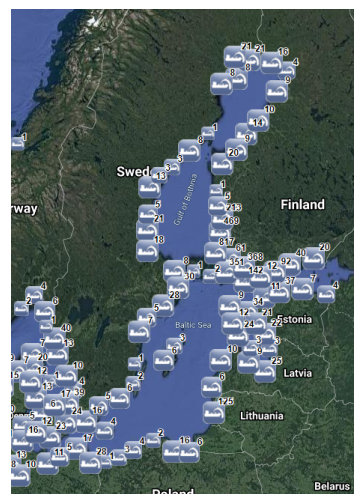
**Temporal coverage:** n/a

**Temporal resolution:** year

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)



## Dredge spoil dumping

**Product name:** Dredge spoil dumping

**Type:** data set

**Service source:** EMODnet Human Activities

**Name ID:** [Dredge spoil dumping](#)

**Variables:** country, name, distance to coast

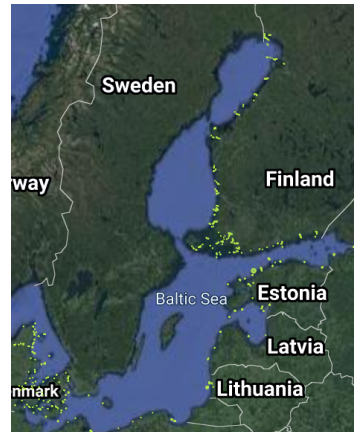
**Temporal coverage:** n/a

**Temporal resolution:** n/a

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)



## Dumped munitions

**Product name:** Dumped munitions

**Type:** in situ

**Service source:** EMODnet Human Activities

**Name ID:** [Dumped munitions](#)

**Variables:** munition type, distance to coast

**Temporal coverage:** n/a

**Temporal resolution:** n/a

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)



## Finfish production

**Product name:** Finfish production

**Type:** data set

**Service source:** EMODnet Human Activities

**Name ID:** [Finfish production](#)

**Variables:** fish species, country, distance to coast, farm type, owner name, point information, position from coastline, production method, production stage, purpose, status

**Scale:** vector format file

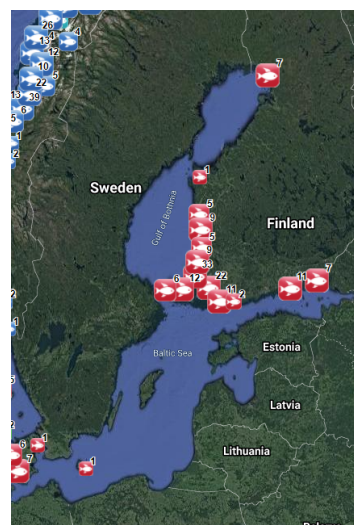
**Temporal coverage:** n/a

**Temporal resolution:** n/a

**Update frequency:** yearly


**Product relevancy:** from coast to open sea

[Viewer.](#)


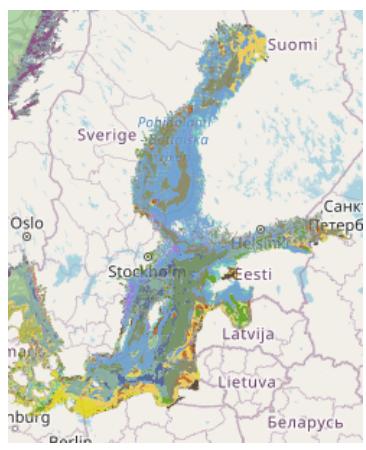




## Fishing intensity

<p><b>Product name:</b> Fishing intensity  <b>Type:</b> data set</p> <p><b>Service source:</b> EMODnet Human Activities </p> <p><b>Name ID:</b> <a href="#">Fishing intensity</a></p> <p><b>Variables:</b> vessel type, average MW fishing hours</p> <p><b>Temporal coverage:</b> 2015-2018</p> <p><b>Temporal resolution:</b> n.a.</p> <p><b>Update frequency:</b> yearly</p> <p><b>Product relevancy:</b> from coast to open sea</p> <p><a href="#">Viewer.</a></p>	<p><b>N.B: Baltic Sea not covered yet</b></p>
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## Habitat type

<p><b>Product name:</b> Baltic seabed habitat predictive multi –scale map</p> <p><b>Type:</b> model</p> <p><b>Service source:</b> EMODnet Seabed habitats </p> <p><b>Name ID:</b> <a href="#">EMODnet broad-scale seabed habitat map for Europe (EUSeaMap)</a></p> <p><b>Variables:</b> habitat type following the MSFD broad habitat types (as defined in Commission Decision (EU) 2017/848)</p> <p><b>Scale:</b> multi-scale, vector format file</p> <p><b>Temporal coverage:</b> n/a</p> <p><b>Temporal resolution:</b> n/a</p> <p><b>Update frequency:</b> biannual</p> <p><b>Product relevancy:</b> from coast to open sea</p> <p><a href="#">Viewer.</a></p>	
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## Human activity - Aggregate extraction

**Product name:** Aggregate extraction

**Type:** data set

**Service source:** EMODnet Human Activities



**Name ID:** [Aggregate extraction](#)

**Variables:** area of activity in km<sup>2</sup>, country, distance to coast, extracted amount in m<sup>3</sup>, extracted amount in tonnes, extraction type, link to web source, material type, name of extraction area, permitted amount in m<sup>3</sup>, permitted amount in tonnes, position information, purpose, requested amount in m<sup>3</sup>, requested amount in tonnes, sea basin

**Scale:** vector format file

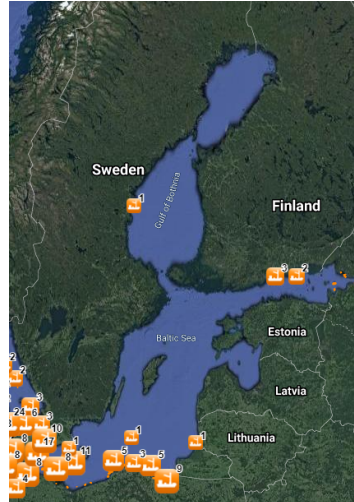
**Temporal coverage:** n/a

**Temporal resolution:** year

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)



## Offshore installations

**Product name:** Offshore installations

**Type:** data set

**Service source:** EMODnet Human Activities



**Name ID:** [Offshore installations](#)

**Variables:** status, category, country, distance to coast, function, location blocks, name, primary production, start year, end year, remarks, water depth

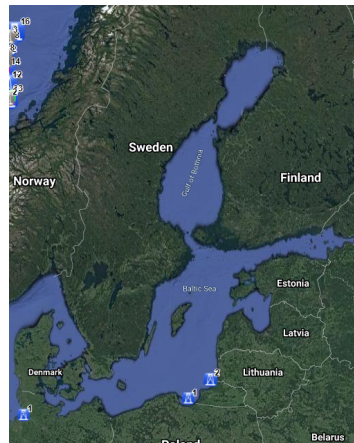
**Temporal coverage:** n/a

**Temporal resolution:** year

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)




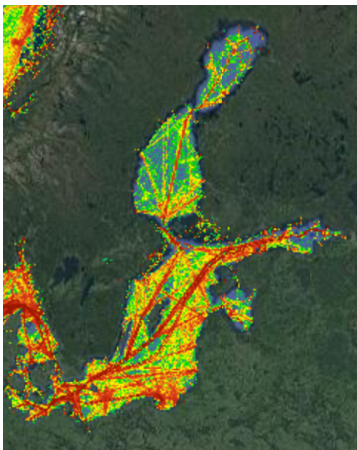
## Pipelines

<p><b>Product name:</b> Pipelines</p> <p><b>Type:</b> data set</p> <p><b>Service source:</b> EMODnet Human Activities </p> <p><b>Name ID:</b> <a href="#">Pipelines</a></p> <p><b>Variables:</b> name, status, medium, operator, size (inches), length (metres), year, country</p> <p><b>Temporal coverage:</b> n/a</p> <p><b>Temporal resolution:</b> n/a</p> <p><b>Update frequency:</b> yearly</p> <p><b>Product relevancy:</b> from coast to open sea</p> <p><a href="#">Viewer.</a></p>	
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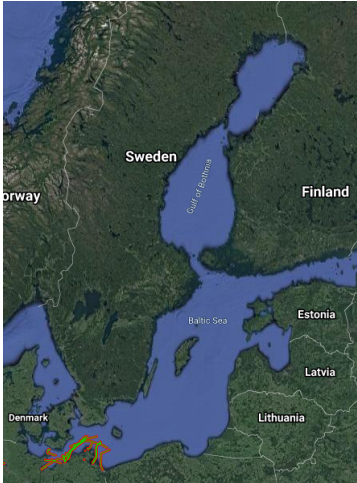
## Power cables

<p><b>Product name:</b> Power cables</p> <p><b>Type:</b> data set</p> <p><b>Service source:</b> EMODnet Human Activities </p> <p><b>Name ID:</b> <a href="#">Power cables</a></p> <p><b>Variables:</b> name</p> <p><b>Temporal coverage:</b> n/a</p> <p><b>Temporal resolution:</b> n/a</p> <p><b>Update frequency:</b> yearly</p> <p><b>Product relevancy:</b> from coast to open sea</p> <p><a href="#">Viewer.</a></p>	
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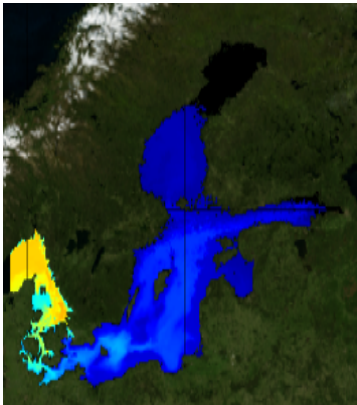
## Route density

<p><b>Product name:</b> Route density</p> <p><b>Type:</b> data product</p> <p><b>Service source:</b> EMODnet Human Activities </p> <p><b>Name ID:</b> <a href="#">Route density</a></p> <p><b>Variables:</b> ship type, routes per square kilometre per month</p> <p><b>Temporal coverage:</b> 2019-2021</p> <p><b>Temporal resolution:</b> month, season, year</p> <p><b>Update frequency:</b> yearly</p> <p><b>Product relevancy:</b> from coast to open sea</p> <p><a href="#">Viewer.</a></p>	
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## Telecommunication cables

<p><b>Product name:</b> Telecommunication cables  <b>Type:</b> data set</p> <p><b>Service source:</b> EMODnet Human Activities </p> <p><b>Name ID:</b> <a href="#">Telecommunication cables</a></p> <p><b>Variables:</b> name</p> <p><b>Temporal coverage:</b> n/a</p> <p><b>Temporal resolution:</b> n/a</p> <p><b>Update frequency:</b> yearly</p> <p><b>Product relevancy:</b> from coast to open sea</p> <p><a href="#">Viewer</a></p>	
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## Temperature

<p><b>Product name:</b> Baltic Sea water potential temperature at sea floor reprocessed on regular model grid</p> <p><b>Type:</b> model</p> <p><b>Service source:</b> CMEMS </p> <p><b>Name ID:</b> <a href="#">BALTICSEA_REANALYSIS_PHY_003_011</a></p> <p><b>Variables:</b> sea water potential temperature at sea floor (bottomT)</p> <p><b>Spatial resolution:</b> 4 km x 4 km,</p> <p><b>Temporal coverage:</b> from 1993-01-01 to 2019-12-31</p> <p><b>Temporal resolution:</b> daily mean /monthly mean</p> <p><b>Update frequency:</b> irregular</p> <p><b>Product relevancy:</b> offshore to 4 km by the coast</p> <p><b>Algorithm:</b> NEMO 3.6</p> <p><a href="#">Viewer</a></p>	
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## Vessel density

**Product name:** Vessel density

**Type:** data product

**Service source:** EMODnet Human Activities



**Name ID:** [Vessel density](#)

**Variables:** ship type, hours per square kilometre per month

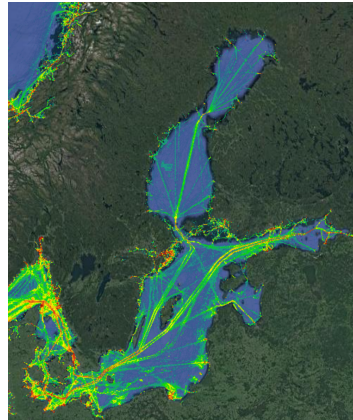
**Temporal coverage:** 2017-2020

**Temporal resolution:** month, year

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)



## Wind energy

**Product name:** Wind farms

**Type:** data set

**Service source:** EMODnet Human Activities



**Name ID:** [Wind farms](#)

**Variables:** status, area, country, distance to coast, name, number of turbines, notes, power (MW), start date,

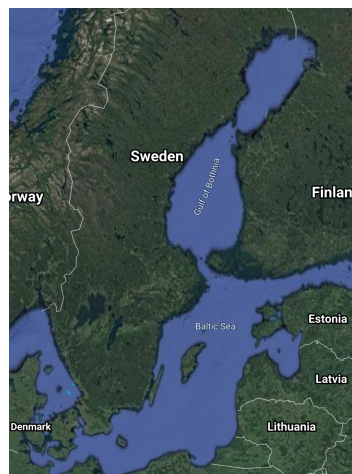
**Temporal coverage:** n/a

**Temporal resolution:** n/a

**Update frequency:** yearly



**Product relevancy:** from coast to open sea

[Viewer.](#)



## Products relevant for D7, Hydrographic conditions

### Boreholes

<p><b>Product name:</b> Boreholes</p> <p><b>Type:</b> data set</p> <p><b>Service source:</b> EMODnet Human Activities </p> <p><b>Name ID:</b> <a href="#">Boreholes</a></p> <p><b>Variables:</b> status, country, distance to coast, drilling company, fluid type, name, operator, purpose of drilling, water depth, year</p> <p><b>Temporal coverage:</b> n/a</p> <p><b>Temporal resolution:</b> year</p> <p><b>Update frequency:</b> yearly</p> <p><b>Product relevancy:</b> from coast to open sea</p> <p><a href="#">Viewer.</a></p>	
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### Dredge spoil dumping

<p><b>Product name:</b> Dredge spoil dumping</p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> EMODnet Human Activities </p> <p><b>Name ID:</b> <a href="#">Dredge spoil dumping</a></p> <p><b>Variables:</b> country, name, distance to coast</p> <p><b>Temporal coverage:</b> n/a</p> <p><b>Temporal resolution:</b> n/a</p> <p><b>Update frequency:</b> yearly</p> <p><b>Product relevancy:</b> from coast to open sea</p> <p><a href="#">Viewer.</a></p>	
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## Dredging

**Product name:** Dredging

**Type:** data set

**Service source:** EMODnet Human Activities 

**Name ID:** [Dredging](#)

**Variables:** country, end use, extracted amount in m3, extracted amount in tonnes, extraction area, link to web source, material type, permitted amount in m3, permitted amount in tonnes, position information, purpose, sea basin, year

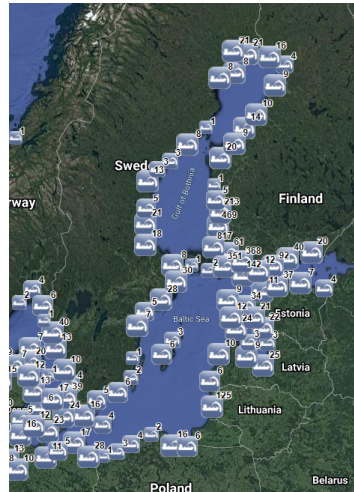
**Temporal coverage:** n/a

**Temporal resolution:** year

**Update frequency:** yearly

**Product relevancy:** from coast to open sea


[Viewer.](#)



## Dumped munitions

**Product name:** Dumped munitions

**Type:** data set

**Service source:** EMODnet Human Activities 

**Name ID:** [Dumped munitions](#)

**Variables:** munition type, distance to coast

**Temporal coverage:** n/a

**Temporal resolution:** n/a

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)



## Finfish production

**Product name:** Finfish production

**Type:** data set

**Service source:** EMODnet Human Activities



**Name ID:** [Finfish production](#)

**Variables:** fish species, country, distance to coast, farm type, owner name, point information, position from coastline, production method, production stage, purpose, status

**Scale:** vector format file

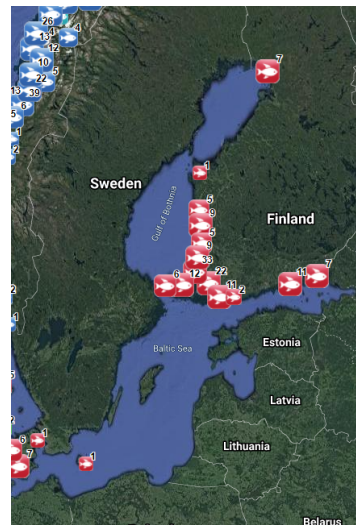
**Temporal coverage:** n/a

**Temporal resolution:** n/a

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)



## Habitat

**Product name:** Baltic seabed habitat predictive multi-scale map

**Type:** model

**Service source:** EMODnet Seabed habitats



**Name ID:** [EMODnet broad-scale seabed habitat map for Europe \(EUSeaMap\)](#)

**Variables:** habitat type following the MSFD broad habitat types (as defined in Commission Decision (EU) 2017/848)

**Scale:** multi-scale, vector format file

**Temporal coverage:** n/a

**Temporal resolution:** n/a

**Update frequency:** biannual

**Product relevancy:** from coast to open sea

[Viewer.](#)





## Human activity - Aggregate extraction

**Product name:** Aggregate extraction

**Type:** data set

**Service source:** EMODnet Human Activities



**Name ID:** [Aggregate extraction](#)

**Variables:** area of activity in km<sup>2</sup>, country, distance to coast, extracted amount in m<sup>3</sup>, extracted amount in tonnes, extraction type, link to web source, material type, name of extraction area, permitted amount in m<sup>3</sup>, permitted amount in tonnes, position information, purpose, requested amount in m<sup>3</sup>, requested amount in tonnes, sea basin

**Scale:** vector format file

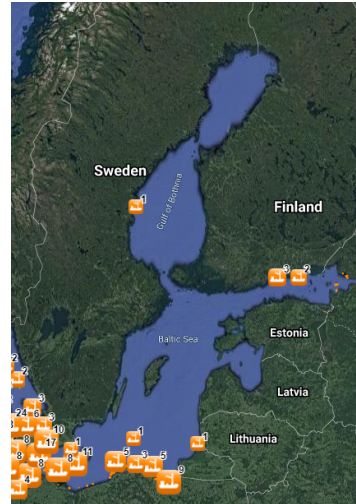
**Temporal coverage:** n/a

**Temporal resolution:** year

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)



## Nuclear Power Plants

**Product name:** Nuclear power plants

**Type:** data set

**Service source:** EMODnet Human Activities



**Name ID:** [Nuclear power plants](#)

**Variables:** status, connection to grid date, construction date, country, criticality date, fuel type, gross capacity in MW, location, , model, net capacity in MW, , nuclear stream supply system, number of reactors, operator, plant gross capacity in MW, plant net capacity in MW, plant thermal capacity in MW, reactor name, shut down date, thermal capacity in MW, type, water source.

**Temporal coverage:** n/a

**Temporal resolution:** n/a

**Update frequency:** yearly

**Product relevancy:** coast

[Viewer.](#)



## Offshore installations

**Product name:** Offshore installations

**Type:** data set

**Service source:** EMODnet Human Activities 

**Name ID:** [Offshore installations](#)

**Variables:** status, category, country, distance to coast, function, location blocks, name, primary production, start year, end year, remarks, water depth

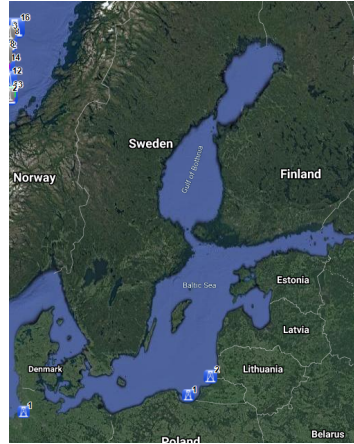
**Temporal coverage:** n/a

**Temporal resolution:** year

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)



## Pipelines

**Product name:** Pipelines

**Type:** data set

**Service source:** EMODnet Human Activities 

**Name ID:** [Pipelines](#)

**Variables:** name, status, medium, operator, size (inches), length (metres), year, country

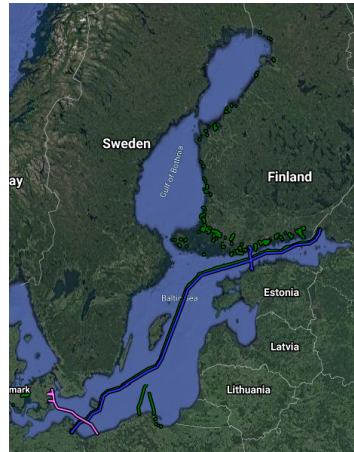
**Temporal coverage:** n/a

**Temporal resolution:** n/a

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)



## Power cables

**Product name:** Power cables

**Type:** data set

**Service source:** EMODnet Human Activities 

**Name ID:** [Power cables](#)

**Variables:** name

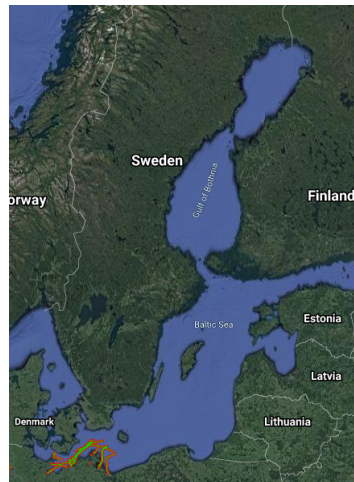
**Temporal coverage:** n/a

**Temporal resolution:** n/a

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)



## Route density

**Product name:** Route density

**Type:** data product

**Service source:** EMODnet Human Activities



**Name ID:** [Route density](#)

**Variables:** ship type, routes per square kilometre per month

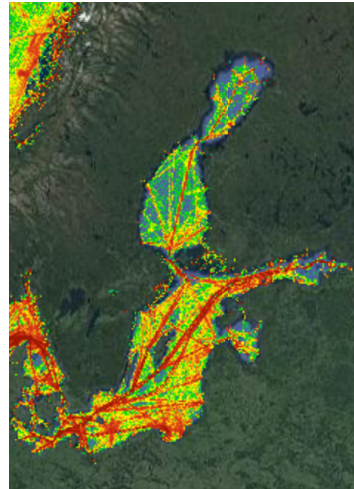
**Temporal coverage:** 2019-2021

**Temporal resolution:** month, season, year

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer](#).



## Salinity

**Product name:** Global Ocean- Real time salinity in-situ observations objective analysis in delayed mode

**Type:** in situ

**Service source:** CMEMS

**Name ID:**

[INSITU\\_GLO\\_TS\\_OA\\_NRT\\_OBSERVATIONS\\_013\\_002\\_b](#)

**Variables:** sea water salinity (T)

**Spatial resolution:** undefined x undefined

**Temporal coverage:** from 1990-01-01 to 2019-12-31

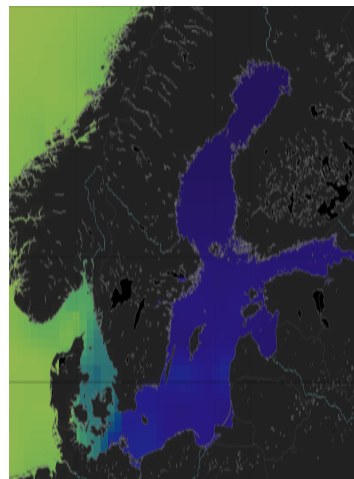
**Temporal resolution:** instantaneous


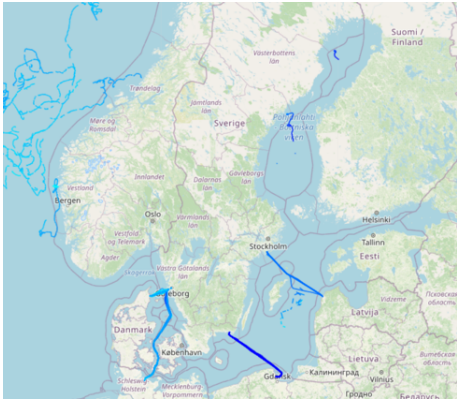
**Update frequency:** biannual


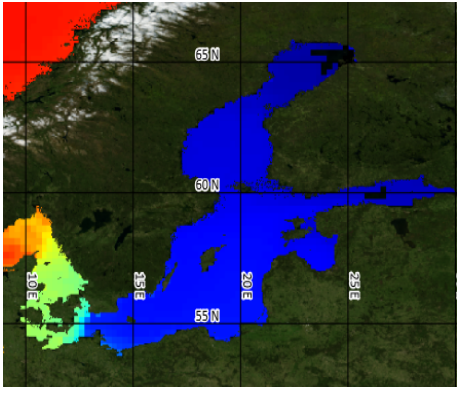
**Product relevancy:** observations points


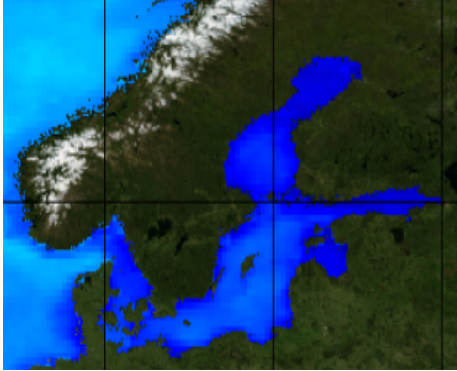
**Algorithm:** [quality information document](#)


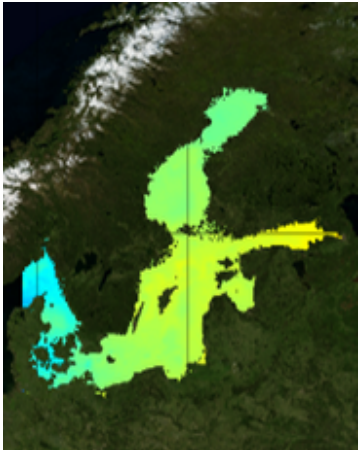
[Viewer](#)




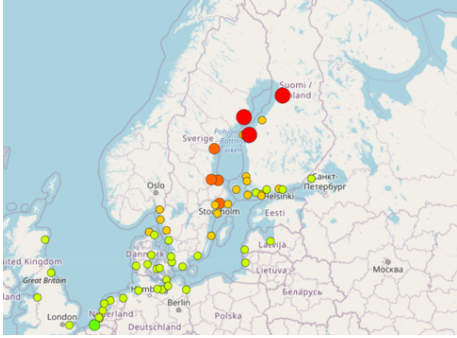

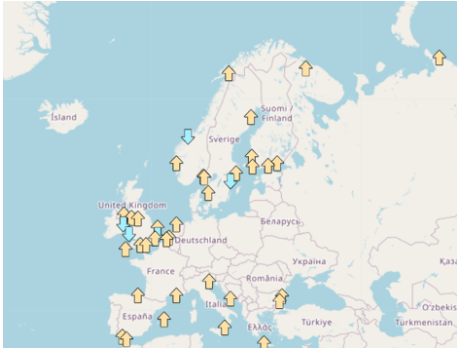

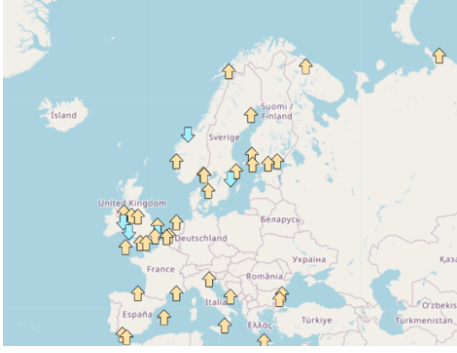
<p><b>Product name:</b> EMODnet Physics - PSAL_002</p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> EMODnet Physics </p> <p><b>Name ID:</b> <a href="#">EP_MAP_PSA_002</a></p> <p><b>Variables:</b> Sea water salinity (PSS)</p> <p><b>Temporal coverage:</b> latest 60 days of measurements</p> <p><b>Temporal resolution:</b> near real time</p> <p><b>Product relevancy:</b> NA</p> <p><a href="#">Viewer.</a></p>	
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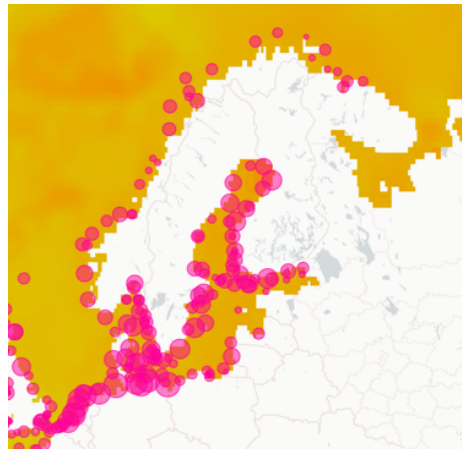
<p><b>Product name:</b> Global ocean salinity reprocessed on regular grid</p> <p><b>Type:</b> in situ and satellite</p> <p><b>Service source:</b> CMEMS </p> <p><b>Name ID:</b> <a href="#">MULTIOBS_GLO_PHY_S_SURFACE_MYNRT_015_013</a></p> <p><b>Variables:</b> salinity (S)</p> <p><b>Spatial resolution:</b> 25 km x 25 km,</p> <p><b>Temporal coverage:</b> from 1993-01-01 to present</p> <p><b>Temporal resolution:</b> weekly mean /monthly mean</p> <p><b>Update frequency:</b> irregular</p> <p><b>Product relevancy:</b> offshore to 25 km by the coast</p> <p><b>Algorithm:</b> Multidimensional Optimal Interpolation</p> <p><a href="#">Viewer.</a></p>	
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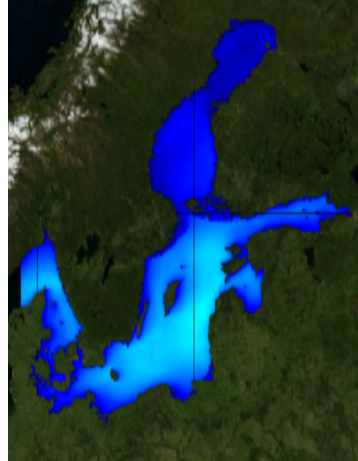
<p><b>Product name:</b> Multi Observation Global Ocean 3D Temperature, Salinity, Height, Geostrophic Current and Mixed Layer Depth</p> <p><b>Type:</b> in situ and satellite</p> <p><b>Service source:</b> CMEMS </p> <p><b>Name ID:</b> <a href="#">MULTIOBS_GLO_PHY_TSUV_3D_MYNRT_015_012</a></p> <p><b>Variables:</b> salinity (S)</p> <p><b>Spatial resolution:</b> 25 km x 25 km,</p> <p><b>Temporal coverage:</b> from 1993-01-01 to present</p> <p><b>Temporal resolution</b> weekly mean /monthly mean / annually mean</p> <p><b>Update frequency:</b> weekly mean /monthly mean / annually mean</p> <p><b>Product relevancy:</b> offshore to 25 km by the coast</p> <p><b>Algorithm:</b> Multidimensional Optimal Interpolation</p> <p><a href="#">Viewer.</a></p>	
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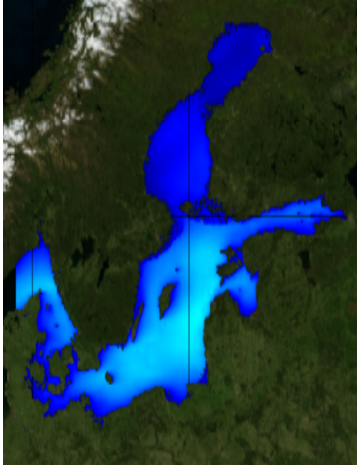
<p><b>Product name:</b> Baltic Sea water salinity reprocessed on regular model grid</p> <p><b>Type:</b> model</p> <p><b>Service source:</b> CMEMS </p> <p><b>Name ID:</b> <a href="#">BALTICSEA_REANALYSIS_PHY_003_011</a></p> <p><b>Variables:</b> salinity (S)</p> <p><b>Spatial resolution:</b> 4 km x 4 km,</p> <p><b>Temporal coverage:</b> from 1993-01-01 to 2019-12-31</p> <p><b>Temporal resolution</b> daily mean /monthly mean</p> <p><b>Update frequency:</b> irregular</p> <p><b>Product relevancy:</b> offshore to 4 km by the coast</p> <p><b>Algorithm:</b> NEMO 3.6</p> <p><a href="#">Viewer.</a></p>	
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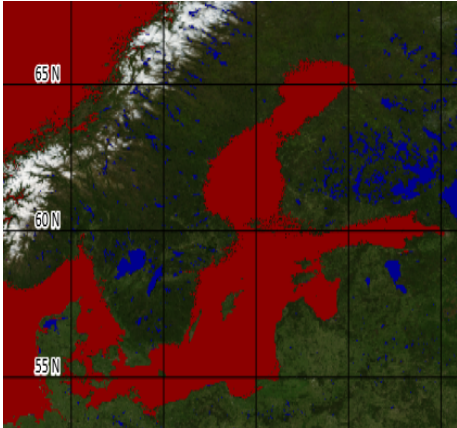
## Sea Level

<p><b>Product name:</b> EMODnet Physics - SLEV_003</p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> EMODnet Physics </p> <p><b>Name ID:</b> <a href="#">EP_MAP_SLEV_003</a></p> <p><b>Variables:</b> sea level anomalies (mm/year)</p> <p><b>Temporal coverage:</b> 1900 - 2016</p> <p><b>Temporal resolution:</b> yearly</p> <p><b>Product relevance:</b> relative sea level trends since 1900. The product is based on a PSMSL aggregated dataset.</p> <p><a href="#">Viewer.</a></p>	
<p><b>Product name:</b> EMODnet Physics - SLEV_004</p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> EMODnet Physics </p> <p><b>Name ID:</b> <a href="#">EP_MAP_SLEV_004</a></p> <p><b>Variables:</b> Relative sea level rise vs. a recent baseline (%)</p> <p><b>Temporal coverage:</b> 2000-2019, 2005-2019, 2010-2019.</p> <p><b>Temporal resolution:</b> monthly</p> <p><a href="#">Viewer.</a></p>	
<p><b>Product name:</b> EMODnet Physics - SLEV_005</p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> EMODnet Physics </p> <p><b>Name ID:</b> <a href="#">EP_MAP_SLEV_005</a></p> <p><b>Variables:</b> sea level variation (mm/year). Sea level trends calculated over 3 recent baseline periods, i.e. 2000-2019, 2005-2019, 2010-2019.</p> <p><b>Temporal resolution:</b> monthly</p> <p><a href="#">Viewer.</a></p>	

<p><b>Product name:</b> EMODnet Physics - Global Sea Level Trend</p> <p><b>Type:</b> in situ and satellite altimetry</p> <p><b>Service source:</b> EMODnet Physics </p> <p><b>Name ID:</b> <a href="#">EP_MAP_SLEV_006</a></p> <p><b>Variables:</b> Sea level (mm)</p> <p><b>Temporal coverage:</b> 1993 - 2018</p> <p><b>Temporal resolution</b> monthly</p> <p><a href="#">Viewer.</a></p>	
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<p><b>Product name:</b> Baltic Sea level reprocessed on regular grid</p> <p><b>Type:</b> satellite</p> <p><b>Service source:</b> CMEMS </p> <p><b>Name ID:</b> <a href="#">SEALEVEL_EUR_PHY_L3_REP_OBSERVATIONS_08_061</a></p> <p><b>Variables:</b> sea level (m)</p> <p><b>Spatial resolution:</b> 7 km x 7 km,</p> <p><b>Temporal coverage:</b> from 1993-01-01 to 2020-03-07</p> <p><b>Temporal resolution</b> daily mean /monthly mean</p> <p><b>Update frequency:</b> irregular</p> <p><b>Product relevancy :</b> offshore to 4 km by the coast</p> <p><b>Algorithm:</b> <a href="#">quality information document</a></p> <p><b>Viewer:</b> NA</p>	
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<p><b>Product name:</b> North Atlantic and European seas along-track high resolution L3 sea level anomalies</p> <p>Type: satellite Service source: CMEMS </p> <p>Name ID: <a href="#">SEALEVEL_ATL_PHY_HR_L3_MY_008_064</a></p> <p>Variables: sea level (m)</p> <p>Spatial resolution: 1.3 km x 1.3 km,</p> <p>Temporal coverage: from 2016-05-26 to 2019-01-01</p> <p>Temporal resolution instantaneous</p> <p>Update frequency: annually</p> <p>Product relevancy: offshore to 1.3 km by the coast</p> <p>Algorithm: <a href="#">quality information document</a></p> <p>Viewer: NA</p>	
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<p><b>Product name:</b> Global ocean gridded L4 sea surface heights and derived variables reprocessed</p> <p>Type: satellite</p> <p>Service source: CMEMS </p> <p>Name ID: <a href="#">SEALEVEL_GLO_PHY_CLIMATE_L4_REP_OBSERVATIONS_008_057</a></p> <p>Variables: sea level (m)</p> <p>Spatial resolution: 0.25 x 0.25</p> <p>Temporal coverage: from 1993-01-01 to 2020-03-07</p> <p>Temporal resolution pluri-annual-mean</p> <p>Update frequency: irregular/ annually</p> <p>Product relevancy : offshore to 1 km by the coast</p> <p>Algorithm: <a href="#">quality information document</a></p> <p><a href="#">Viewer</a>.</p>	
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**Product name: Global ocean gridded L4 sea surface heights and derived variables reprocessed (1993-ongoing)**

Type: satellite

Service source: CMEMS 

Name ID:

[SEALEVEL\\_GLO\\_PHY\\_L4\\_REP\\_OBSERVATIONS\\_008\\_047](#)

Variables: sea level (m)

Spatial resolution: 0.25 x 0.25

Temporal coverage: from 1993-01-01 to 2020-03-07

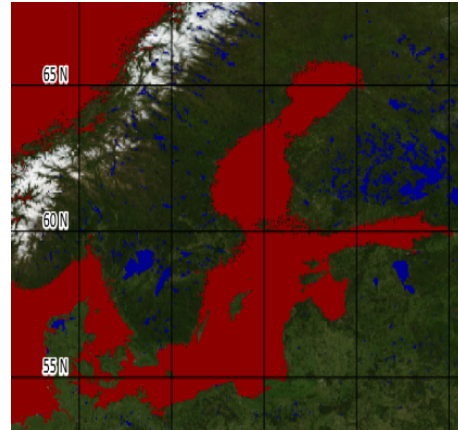
Temporal resolution irregular/monthly

Update frequency: irregular/ annually

Product relevancy: offshore to 1 km by the coast

Algorithm: [quality information document](#)

[Viewer.](#)



**Product name: Baltic Sea level reprocessed on regular model grid**

Type: model

Service source: CMEMS 

Name ID:

[BALTICSEA\\_REANALYSIS\\_PHY\\_003\\_011](#)

Variables: sea level (m)

Spatial resolution: 4 km x 4 km,

Temporal coverage: from 1993-01-01 to 2019-12-31

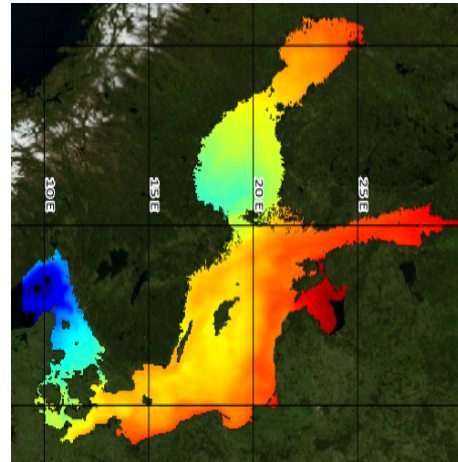
Temporal resolution daily mean /monthly mean

Update frequency: irregular


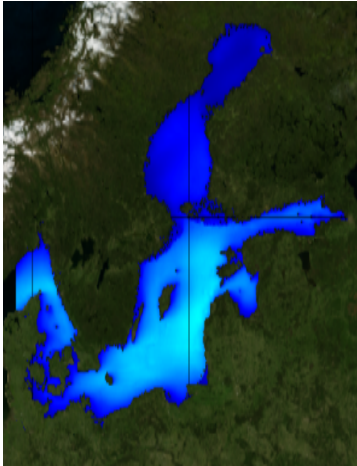
Product relevancy: offshore to 4 km by the coast


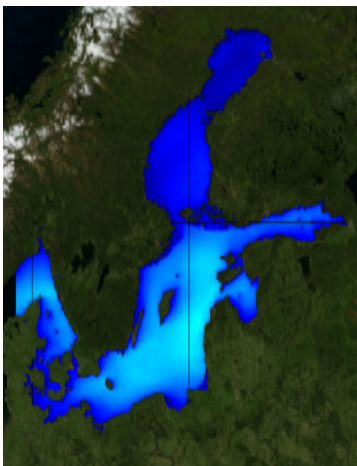
Algorithm: NEMO 3.6

[Viewer.](#)



## Sea surface waves

<p><b>Product name:</b> Global Ocean - Delayed Mode <b>Wave product</b></p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> CMEMS </p> <p><b>Name ID:</b> <a href="#">INSITU_GLO_WAVE_REP_OBSERVATIONS_013_045</a></p> <p><b>Variables:</b> sea surface significant wave height</p> <p><b>Spatial resolution:</b> undefined x undefined</p> <p><b>Temporal coverage:</b> from 1990-01-01 to 2019-12-31</p> <p><b>Temporal resolution:</b> instantaneous</p> <p><b>Update frequency:</b> biannual</p> <p><b>Product relevancy:</b> at measurement points</p> <p><b>Algorithm:</b> <a href="#">quality information document</a></p> <p><b>Viewer:</b> NA</p>	
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<p><b>Product name:</b> Baltic sea surface wave from direction and stokes drift reprocessed on regular model grid</p> <p><b>Type:</b> model</p> <p><b>Service source:</b> CMEMS </p> <p><b>Name ID:</b> <a href="#">BALTICSEA_REANALYSIS_WAV_003_015</a></p> <p><b>Variables:</b> sea surface wave from direction (VMDR) &amp; stokes drift (VSDXY)</p> <p><b>Spatial resolution:</b> 2km x 2km</p> <p><b>Temporal coverage:</b> from 1993-01-01 to 2020-06-30</p> <p><b>Temporal resolution:</b> hourly-instantaneous</p> <p><b>Update frequency:</b> irregular</p> <p><b>Product relevancy:</b> offshore to 2 km by the coast</p> <p><b>Algorithm:</b> WAM cycle 4.6.2</p> <p><b>Viewer:</b> <a href="#">Viewer</a></p>	
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## Sea water temperature

**Product name:** Global Ocean- Real time sea water temperature in-situ observations objective analysis in delayed mode

**Type:** in situ

**Service source:** CMEMS 

**Name ID:**

[INSITU\\_GLO\\_TS\\_OA\\_NRT\\_OBSERVATIONS\\_013\\_002\\_b](#)

**Variables:** sea water potential temperature (T)

**Spatial resolution:** undefined x undefined

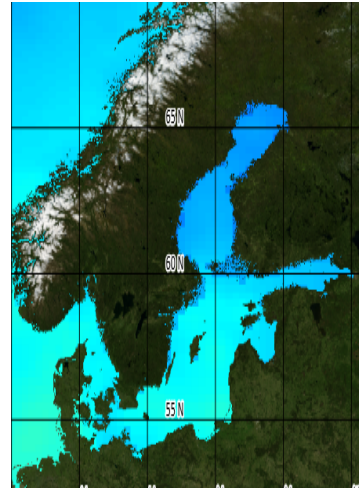
**Temporal coverage:** from 1990-01-01 to 2019-12-31

**Temporal resolution:** instantaneous

**Update frequency:** biannual

**Product relevancy :** observations points

**Algorithm:** [quality information document Viewer](#).



**Product name:** EMODnet Physics - TEMP\_002

**Type:** in situ

**Service source:** EMODnet Physics 

**Name ID:** [EP\\_MAP\\_TEMP\\_002](#)

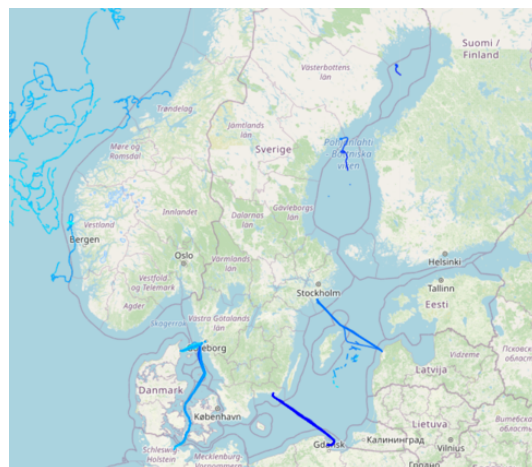
**Variables:** Sea water temperature (°C)


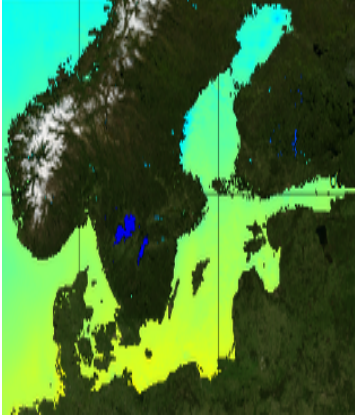
**Temporal coverage:** latest 7-60 days of measurements


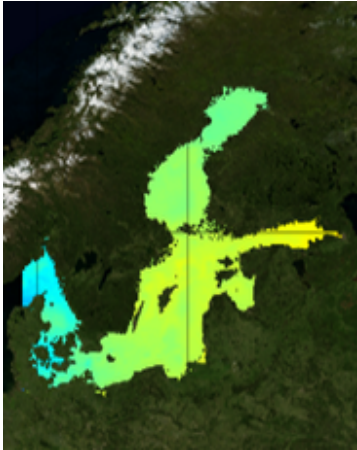
**Temporal resolution:** near real time

**Product relevance:** near real time temperature in the water column from multi platforms observations. The product presents the latest 7-60 days of measurements from fixed and moving platforms.

[Viewer](#).



<p><b>Product name:</b> Baltic Sea- Sea Surface Temperature reprocessed observations</p> <p>Type: satellite</p> <p>Service source: CMEMS </p> <p>Name ID: <a href="#">SST_BAL_SST_L4_REP_OBSERVATIONS_010_016</a></p> <p>Variables: Sea surface temperature (SST)</p> <p>Spatial resolution: 0.02 x 0.02</p> <p>Temporal coverage: from 1982-01-01 to 2019-08-31</p> <p>Temporal resolution daily mean</p> <p>Update frequency: irregular</p> <p>Product relevancy: offshore to 1km by the coast</p> <p>Algorithm: DMI Operational Sea Surface Temperature and Ice Analysis System</p> <p><a href="#">Viewer.</a></p>	
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<p><b>Product name:</b> Baltic Sea water potential temperature reprocessed on regular model grid</p> <p>Type: model</p> <p>Service source: CMEMS </p> <p>Name ID: <a href="#">BALTICSEA_REANALYSIS_PHY_003_011</a></p> <p>Variables: sea water potential temperature (T)</p> <p>Spatial resolution: 4 km x 4 km,</p> <p>Temporal coverage: from 1993-01-01 to 2019-12-31</p> <p>Temporal resolution daily mean /monthly mean</p> <p>Update frequency: irregular</p> <p>Product relevancy: offshore to 4 km by the coast</p> <p>Algorithm: NEMO 3.6</p> <p><a href="#">Viewer.</a></p>	
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## Sea water velocity

**Product name:** Baltic sea water velocity reprocessed on regular model grid

**Type:** model

**Service source:** CMEMS 

**Name ID:** [BALTICSEA REANALYSIS PHY 003 011](#)

**Variables:** sea water velocity (3DUV)

**Spatial resolution:** 4 km x 4 km,

**Temporal coverage:** from 1993-01-01 to 2019-12-31

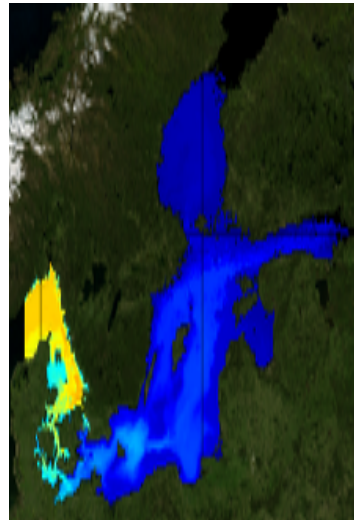
**Temporal resolution** hourly instantaneous, daily mean, monthly mean

**Update frequency:** irregular

**Product relevancy:** offshore to 4 km by the coast

**Algorithm:** NEMO 3.6

[Viewer.](#)



**Product name:** Multi Observation Global Ocean 3D Temperature, Salinity, Height, Geostrophic Current and Mixed layers Depth

**Type:** in situ and satellite

**Service source:** CMEMS 

**Name ID:**

[MULTIOBS\\_GLO\\_PHY\\_TSUV\\_3D\\_MYNRT\\_015\\_012](#)

**Variables:** geostrophic sea water velocity (UVG)

**Spatial resolution:** 25 km x 25 km,

**Temporal coverage:** from 1993-01-01 to present

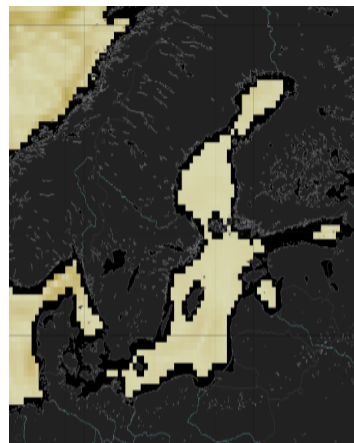
**Temporal resolution** weekly mean /monthly mean / annually mean


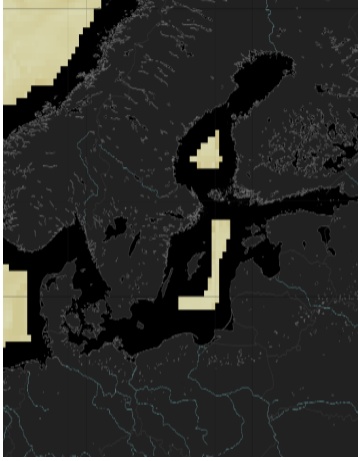
**Update frequency:** weekly mean /monthly mean / annually mean



**Product relevancy:** offshore to 25 km by the coast

**Algorithm:** ARMOR3D analysis and multi-year reprocessing

[Viewer.](#)



<p><b>Product name:</b> Global observed ocean physics <b>3D quasi-geostrophic currents (OMEG3D)</b></p> <p><b>Type:</b> in situ and satellite</p> <p><b>Service source:</b> CMEMS </p> <p><b>Name ID:</b> <a href="#">MULTIOBS_GLO_PHY_W_3D_REP_015_007</a></p> <p><b>Variables:</b> sea water velocity (3DUV)</p> <p><b>Spatial resolution:</b> 25 km x 25 km,</p> <p><b>Temporal coverage:</b> from 1993-01-01 to 2018-12-31</p> <p><b>Temporal resolution</b> weekly mean</p> <p><b>Update frequency:</b> annually</p> <p><b>Product relevancy:</b> offshore to 25 km by the coast</p> <p><b>Algorithm:</b>OMEGA-3D</p> <p><a href="#">Viewer.</a></p>	
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<p><b>Product name:</b> Global total surface and 15 m current (Copernicus- GlobCurrent) from altimetric geostrophic current and model Ekman current reprocessing</p> <p><b>Type:</b> in situ and satellite</p> <p><b>Service source:</b> CMEMS </p> <p><b>Name ID:</b> <a href="#">MULTIOBS_GLO_PHY_REP_015_004</a></p> <p><b>Variables:</b> sea water velocity (3DUV)</p> <p><b>Spatial resolution:</b> 25 km x 25 km,</p> <p><b>Temporal coverage:</b> from 1993-01-01 to 2019-10-15</p> <p><b>Temporal resolution</b> 3-hourly/ instantaneous/ daily-mean/ monthly-mean</p> <p><b>Update frequency:</b> annually</p> <p><b>Product relevancy:</b> offshore to 25 km by the coast</p> <p><b>Algorithm:</b> <a href="#">quality information document</a></p> <p><a href="#">Viewer.</a></p>	
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## Shellfish production

**Product name:** Shellfish production

**Type:** data set

**Service source:** EMODnet Human Activities



**Name ID:** [Shellfish production](#)

**Variables:** species name, species group, species detailed, country, owner name, production method, production stage, purpose, status

**Scale:** vector format file

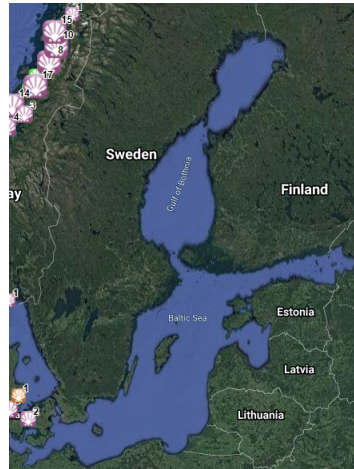
**Temporal coverage:** n/a

**Temporal resolution:** n/a

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)



## Telecommunication cables

**Product name:** Telecommunication cables

**Type:** data set

**Service source:** EMODnet Human Activities



**Name ID:** [Telecommunication cables](#)

**Variables:** name

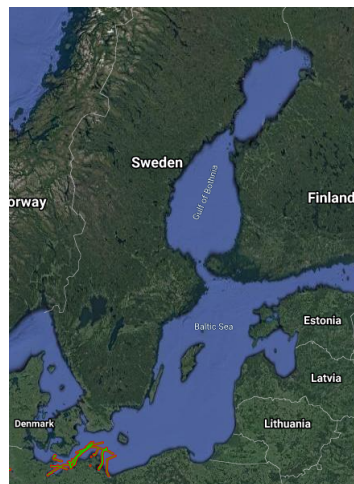
**Temporal coverage:** n/a

**Temporal resolution:** n/a

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)



## Urban wastewater

**Product name:** Urban wastewater

**Type:** in situ

**Service source:** EMODnet Human Activities



**Name ID:** [Discharge plants](#)

**Variables:** country, name, status, type of receiving area, UWWTP code, water body type

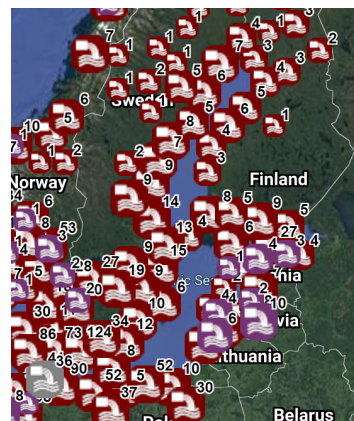
**Temporal coverage:** n/a

**Temporal resolution:** n/a

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)



## Vessel density

**Product name:** Vessel density

**Type:** data product

**Service source:** EMODnet Human Activities 

**Name ID:** [Vessel density](#)

**Variables:** ship type, hours per square kilometre per month

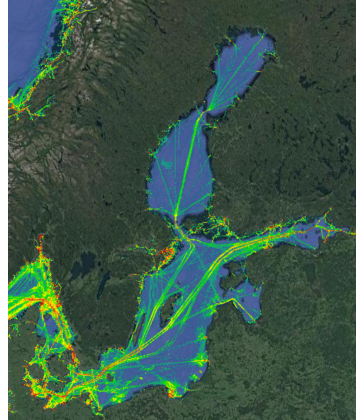
**Temporal coverage:** 2017-2020

**Temporal resolution:** month, year

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)



## Wind

**Product name:** Wind farms

**Type:** data set

**Service source:** EMODnet Human Activities 

**Name ID:** [Wind farms](#)

**Variables:** status, area, country, distance to coast, name, number of turbines, notes, power (MW), start date,

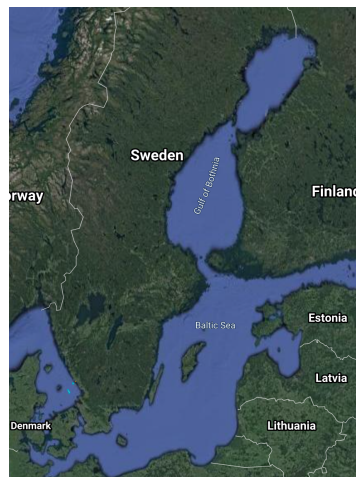
**Temporal coverage:** n/a

**Temporal resolution:** n/a

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)



**Product name:** EMODnet Physics - WIND\_001

**Type:** in situ

**Service source:** EMODnet Physics 

**Name ID:** [EP\\_MAP\\_WIND\\_001](#)

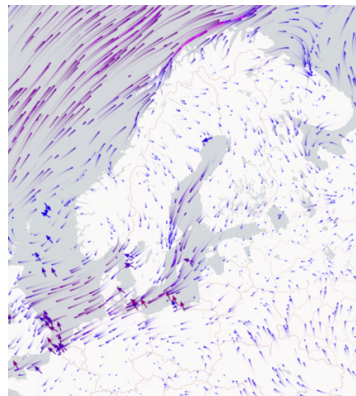
**Variables:** speed (m/s); direction (degrees)

**Temporal coverage:** latest 60 days


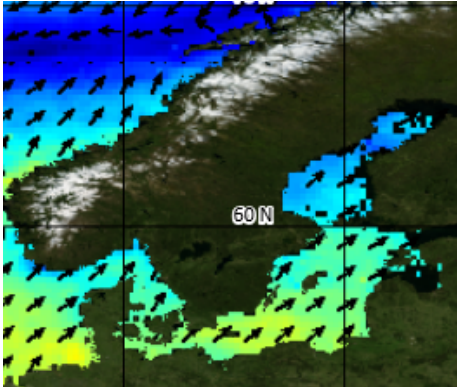
**Temporal resolution:** daily mean

**Product relevance :** global winds at sea level/ground

[Viewer.](#)









<p><b>Product name:</b> Global Ocean wind I reprocessed on regular model grid</p> <p><b>Type:</b> satellite</p> <p><b>Service source:</b> CMEMS </p> <p><b>Name ID:</b> <a href="#">WIND_GLO_PHY_CLIMATE_L4_REP_012_003</a></p> <p><b>Variables:</b> wind</p> <p><b>Spatial resolution:</b> 25 km x 25 km,</p> <p><b>Temporal coverage:</b> from 2007-05-16 to 2019-12-31</p> <p><b>Temporal resolution</b> monthly mean</p> <p><b>Update frequency:</b> irregular</p> <p><b>Product relevancy :</b> offshore to 25 km by the coast</p> <p><b>Algorithm:</b> <a href="#">quality information document</a></p> <p><a href="#">Viewer.</a></p>	 <p>A map showing wind vectors and color-coded wind speed over the North Atlantic and surrounding regions. A latitude line is marked at 60N.</p>
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## Products relevant for D8, Contaminants

### Anthracene

<p><b>Product name</b> (3 layers): Anthracene: stations above, below/above, below (LOD/LOQ)</p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> EMODnet Chemistry </p> <p><b>Name ID:</b> <a href="#">Contaminants-Anthracene: stations above LOD/LOQ</a> <a href="#">Contaminants-Anthracene: stations above/below LOD/LOQ</a> <a href="#">Contaminants-Anthracene: stations below LOD/LOQ</a></p> <p><b>Variables:</b> quality/adequacy for MSFD purposes of Anthracene data per matrix (aggregated data per station below, below/above, above LOD/LOQ)</p> <p><b>Spatial resolution:</b> at measurement point</p> <p><b>Temporal coverage:</b> from 1998 to 2015</p> <p><b>Temporal resolution:</b> instantaneous</p> <p><b>Update frequency:</b> yearly or biannual</p> <p><b>Product relevancy:</b> at measurement points</p> <p><a href="#">Viewer.</a></p>	 <p>A map of the North Atlantic region showing sampling stations for Anthracene, marked with small black dots. The map includes landmasses and surrounding waters.</p>
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<p><b>Product name (3 layers): Anthracene: biota, sediment and water stations</b></p> <p>Type: in situ</p> <p>Service source: EMODnet Chemistry </p> <p>Name ID:</p> <p><a href="#">Anthracene: biota stations</a></p> <p><a href="#">Anthracene: sediment stations</a></p> <p><a href="#">Anthracene: water stations</a></p> <p>Variables: spatial distribution of Anthracene data per matrix</p> <p>Spatial resolution: at measurement point</p> <p>Temporal coverage: from 1998 to 2015</p> <p>Temporal resolution: instantaneous</p> <p>Update frequency: yearly or biannual</p> <p>Product relevancy: at measurement points</p> <p><a href="#">Viewer.</a></p>	
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## Benzo[A]pyrene

<p><b>Product name (3 layers): Benzo[A]pyrene: stations above, below/above, below (LOD/LOQ)</b></p> <p>Type: in situ</p> <p>Service source: EMODnet Chemistry </p> <p>Name ID:</p> <p><a href="#">Contaminants-Benzo[A]pyrene: stations above LOD/LOQ</a></p> <p><a href="#">Contaminants-Benzo[A]pyrene: stations above/below LOD/LOQ</a></p> <p><a href="#">Contaminants-Benzo[A]pyrene: stations below LOD/LOQ</a></p> <p>Variables: quality/adequacy for MSFD purposes of Benzo[A]pyrene data per matrix (aggregated data per station below, below/above, above LOD/LOQ)</p> <p>Spatial resolution: at measurement point</p> <p>Temporal coverage: from 2006 to 2015</p> <p>Temporal resolution: instantaneous</p> <p>Update frequency: yearly or biannual</p> <p>Product relevancy: at measurement points</p> <p><a href="#">Viewer.</a></p>	
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**Product name (3 layers): Benzo[A]pyrene: biota, sediment and water stations**

Type: in situ

Service source: EMODnet Chemistry 

Name ID:

[Benzo\[A\]pyrene: biota stations](#)

[Benzo\[A\]pyrene: sediment stations](#)

[Benzo\[A\]pyrene: water stations](#)

Variables: spatial distribution of Benzo[A]pyrene data per matrix

Spatial resolution: at measurement point

Temporal coverage: from 2006 to 2015

Temporal resolution: instantaneous

Update frequency: yearly or biannual

Product relevancy: at measurement points

[Viewer.](#)



## Boreholes

**Product name: Boreholes**

Type: data set

Service source: EMODnet Human Activities 

Name ID: [Boreholes](#)

Variables: status, country, distance to coast, drilling company, fluid type, name, operator, purpose of drilling, water depth, year

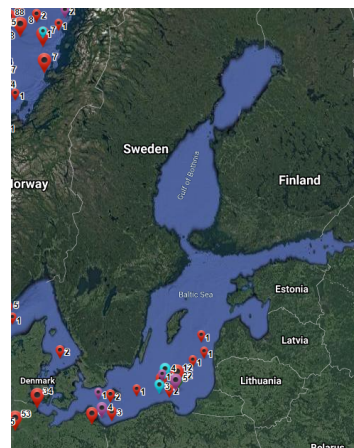
Temporal coverage: n/a

Temporal resolution: year





Update frequency: yearly

Product relevancy: from coast to open sea





[Viewer.](#)



## Cadmium

<p><b>Product name (3 layers): Cadmium: stations above, below/above, below (LOD/LOQ)</b></p> <p>Type: in situ</p> <p>Service source: EMODnet Chemistry </p> <p>Name ID:  <a href="#">Cadmium: stations above LOD/LOQ</a>  <a href="#">Cadmium: stations above/below LOD/LOQ</a>  <a href="#">Cadmium: stations below LOD/LOQ</a></p> <p>Variables: quality/adequacy for MSFD purposes of Cadmium data per matrix (aggregated data per station below, below/above, above LOD/LOQ)</p> <p>Spatial resolution: at measurement point</p> <p>Temporal coverage: from 1974 to 2016</p> <p>Temporal resolution: instantaneous</p> <p>Update frequency: yearly or biannual</p> <p>Product relevancy: at measurement points</p> <p><a href="#">Viewer.</a></p>	
<p><b>Product name (3 layers): Cadmium: biota, sediment and water stations</b></p> <p>Type: in situ</p> <p>Service source: EMODnet Chemistry </p> <p>Name ID:  <a href="#">Cadmium: biota stations</a>  <a href="#">Cadmium: sediment stations</a>  <a href="#">Cadmium: water stations</a></p> <p>Variables: spatial distribution of Cadmium data per matrix</p> <p>Spatial resolution: at measurement point</p> <p>Temporal coverage: from 1974 to 2016</p> <p>Temporal resolution: instantaneous</p> <p>Update frequency: yearly or biannual</p> <p>Product relevancy: at measurement points</p> <p><a href="#">Viewer.</a></p>	



## DDT

<p><b>Product name (3 layers): DDT: stations above, below/above, below (LOD/LOQ)</b></p> <p>Type: in situ</p> <p>Service source: EMODnet Chemistry </p> <p>Name ID:</p> <p><a href="#">DDT: stations above LOD/LOQ</a></p> <p><a href="#">DDT: stations above/below LOD/LOQ</a></p> <p><a href="#">DDT: stations below LOD/LOQ</a></p> <p>Variables: quality/adequacy for MSFD purposes of DDT data per matrix (aggregated data per station below, below/above, above LOD/LOQ)</p> <p>Spatial resolution: at measurement point</p> <p>Temporal coverage: from 1998 to 2015</p> <p>Temporal resolution: instantaneous</p> <p>Update frequency: yearly or biannual</p> <p>Product relevancy: at measurement points</p> <p><a href="#">Viewer.</a></p>	
<p><b>Product name (3 layers): DDT: biota, sediment and water stations</b></p> <p>Type: in situ</p> <p>Service source: EMODnet Chemistry </p> <p>Name ID:</p> <p><a href="#">DDT: biota stations</a></p> <p><a href="#">DDT: sediment stations</a></p> <p><a href="#">DDT: water stations</a></p> <p>Variables: spatial distribution of DDT data per matrix</p> <p>Spatial resolution: at measurement point</p> <p>Temporal coverage: from 1998 to 2015</p> <p>Temporal resolution: instantaneous</p> <p>Update frequency: yearly or biannual</p> <p>Product relevancy: at measurement points</p> <p><a href="#">Viewer.</a></p>	

## Dumped munitions

<p><b>Product name:</b> Dumped munitions  <b>Type:</b> data set</p> <p><b>Service source:</b> EMODnet Human Activities </p> <p><b>Name ID:</b> <a href="#">Dumped munitions</a></p> <p><b>Variables:</b> munition type, distance to coast</p> <p><b>Temporal coverage:</b> n/a</p> <p><b>Temporal resolution:</b> n/a</p> <p><b>Update frequency:</b> yearly</p> <p><b>Product relevancy:</b> from coast to open sea</p> <p><a href="#">Viewer.</a></p>	
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## Fluoranthene

<p><b>Product name (3 layers):</b> Fluoranthene:  <b>stations above, below/above, below (LOD/LOQ)</b></p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> EMODnet Chemistry </p> <p><b>Name ID:</b>  <a href="#">Fluoranthene: stations above LOD/LOQ</a>  <a href="#">Fluoranthene: stations above/below LOD/LOQ</a>  <a href="#">Fluoranthene: stations below LOD/LOQ</a></p> <p><b>Variables:</b> quality/adequacy for MSFD purposes of Fluoranthene data per matrix (aggregated data per station below, below/above, above LOD/LOQ)</p> <p><b>Spatial resolution:</b> at measurement point</p> <p><b>Temporal coverage:</b> from 1998 to 2015</p> <p><b>Temporal resolution:</b> instantaneous</p> <p><b>Update frequency:</b> yearly or biannual</p> <p><b>Product relevancy:</b> at measurement points</p> <p><a href="#">Viewer.</a></p>	
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**Product name (3 layers): Fluoranthene: biota, sediment and water stations**

Type: in situ

Service source: EMODnet Chemistry 

Name ID:

[Fluoranthene: biota stations](#)

[Fluoranthene: sediment stations](#)

[Fluoranthene: water stations](#)

Variables: spatial distribution of Fluoranthene data per matrix

Spatial resolution: at measurement point

Temporal coverage: from 1998 to 2015

Temporal resolution: instantaneous

Update frequency: yearly or biannual

Product relevancy: at measurement points

[Viewer.](#)



## Hexachlorobenzene

**Product name (3 layers): HCB: stations above, below/above, below (LOD/LOQ)**

Type: in situ

Service source: EMODnet Chemistry 

Name ID:

[HCB stations: above LOD/LOQ](#)

[HCB stations: above/below LOD/LOQ](#)

[HCB stations: below LOD/LOQ](#)

Variables: quality/adequacy for MSFD purposes of Hexachlorobenzene data per matrix (aggregated data per station below, below/above, above LOD/LOQ)

Spatial resolution: at measurement point

Temporal coverage: from 1994 to 2015

Temporal resolution: instantaneous

Update frequency: yearly or biannual

Product relevancy: at measurement points

[Viewer.](#)



**Product name (3 layers): HCB: biota, sediment and water stations**

Type: in situ

Service source: EMODnet Chemistry 

Name ID:

[HCB: biota stations](#)

[HCB: sediment stations](#)

[HCB: water stations](#)

Variables: spatial distribution of

Hexachlorobenzene data per matrix

Spatial resolution: at measurement point

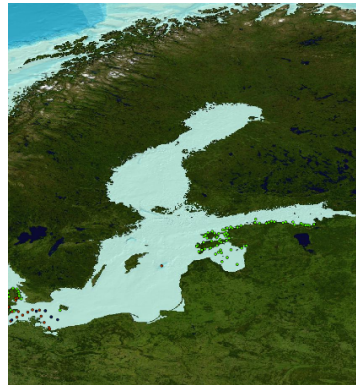
Temporal coverage: from 1994 to 2015

Temporal resolution: instantaneous

Update frequency: yearly or biannual

Product relevancy: at measurement points

[Viewer.](#)



**Product name: HCB: LOD/LOQ values in biota not compliant to EQSD**

Type: in situ

Service source: EMODnet Chemistry 

Name ID:

[HCB: LOD/LOQ values in biota not compliant to EQSD](#)

Variables: quality/adequacy for MSFD purposes of Hexachlorobenzene data in biota (LOD/LOQ values in biota not compliant to EQSD)

Spatial resolution: at measurement point

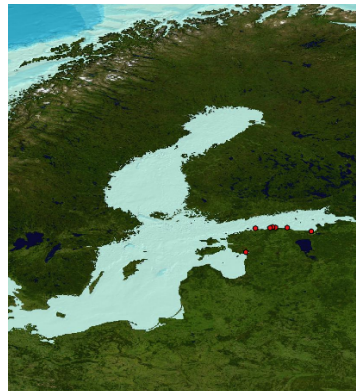
Temporal coverage: from 1994 to 2015

Temporal resolution: instantaneous

Update frequency: yearly or biannual





Product relevancy: at measurement points

[Viewer.](#)


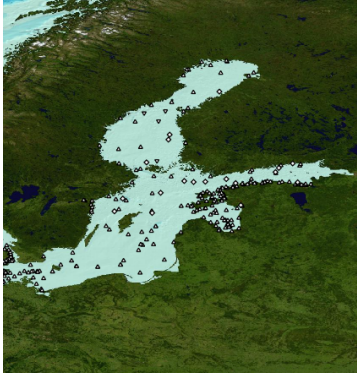

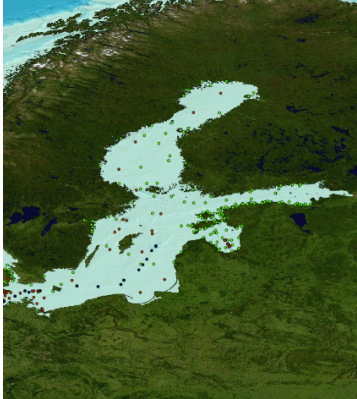








## Lead

<p><b>Product name (3 layers): Lead: stations above, below/above, below (LOD/LOQ)</b></p> <p>Type: in situ</p> <p>Service source: EMODnet Chemistry </p> <p>Name ID:</p> <p><a href="#">Lead: stations above LOD/LOQ</a></p> <p><a href="#">Lead: stations above/below LOD/LOQ</a></p> <p><a href="#">Lead: stations below LOD/LOQ</a></p> <p>Variables: quality/adequacy for MSFD purposes of Lead data per matrix (aggregated data per station below, below/above, above LOD/LOQ)</p> <p>Spatial resolution: at measurement point</p> <p>Temporal coverage: from 1974 to 2016</p> <p>Temporal resolution: instantaneous</p> <p>Update frequency: yearly or biannual</p> <p>Product relevancy: at measurement points</p> <p><a href="#">Viewer.</a></p>	
<p><b>Product name (3 layers): Lead: biota, sediment and water stations</b></p> <p>Type: in situ</p> <p>Service source: EMODnet Chemistry </p> <p>Name ID:</p> <p><a href="#">Lead: biota stations</a></p> <p><a href="#">Lead: sediment stations</a></p> <p><a href="#">Lead: water stations</a></p> <p>Variables: spatial distribution of Lead data per matrix</p> <p>Spatial resolution: at measurement point</p> <p>Temporal coverage: from 1974 to 2016</p> <p>Temporal resolution: instantaneous</p> <p>Update frequency: yearly or biannual</p> <p>Product relevancy: at measurement points</p> <p><a href="#">Viewer.</a></p>	

## Mercury

<p><b>Product name (3 layers): Mercury: stations above, below/above, below (LOD/LOQ)</b></p> <p>Type: in situ</p> <p>Service source: EMODnet Chemistry </p> <p>Name ID:</p> <p><a href="#">Mercury: stations above LOD/LOQ</a></p> <p><a href="#">Mercury: stations above/below LOD/LOQ</a></p> <p><a href="#">Mercury: stations below LOD/LOQ</a></p> <p>Variables: quality/adequacy for MSFD purposes of Mercury data per matrix (aggregated data per station below, below/above, above LOD/LOQ)</p> <p>Spatial resolution: at measurement point</p> <p>Temporal coverage: from 1985 to 2016</p> <p>Temporal resolution: instantaneous</p> <p>Update frequency: yearly or biannual</p> <p>Product relevancy: at measurement points</p> <p><a href="#">Viewer.</a></p>	
<p><b>Product name (3 layers): Mercury: biota, sediment and water stations</b></p> <p>Type: in situ</p> <p>Service source: EMODnet Chemistry </p> <p>Name ID:</p> <p><a href="#">Mercury: biota stations</a></p> <p><a href="#">Mercury: sediment stations</a></p> <p><a href="#">Mercury: water stations</a></p> <p>Variables: spatial distribution of Mercury data per matrix</p> <p>Spatial resolution: at measurement point</p> <p>Temporal coverage: from 1985 to 2016</p> <p>Temporal resolution: instantaneous</p> <p>Update frequency: yearly or biannual</p> <p>Product relevancy: at measurement points</p> <p><a href="#">Viewer.</a></p>	

## Naphthalene

<p><b>Product name (3 layers): Naphthalene: stations above, below/above, below (LOD/LOQ)</b></p> <p>Type: in situ</p> <p>Service source: EMODnet Chemistry </p> <p>Name ID:</p> <p><a href="#">Naphthalene: stations above LOD/LOQ</a></p> <p><a href="#">Naphthalene: stations above/below LOD/LOQ</a></p> <p><a href="#">Naphthalene: stations below LOD/LOQ</a></p> <p>Variables: quality/adequacy for MSFD purposes of Naphthalene data per matrix (aggregated data per station below, below/above, above LOD/LOQ)</p> <p>Spatial resolution: at measurement point</p> <p>Temporal coverage: from 2003 to 2014</p> <p>Temporal resolution: instantaneous</p> <p>Update frequency: yearly or biannual</p> <p>Product relevancy: at measurement points</p> <p><a href="#">Viewer.</a></p>	
<p><b>Product name (3 layers): Naphthalene: biota, sediment and water stations</b></p> <p>Type: in situ</p> <p>Service source: EMODnet Chemistry </p> <p>Name ID:</p> <p><a href="#">Naphthalene: biota stations</a></p> <p><a href="#">Naphthalene: sediment stations</a></p> <p><a href="#">Naphthalene: water stations</a></p> <p>Variables: spatial distribution of Naphthalene data per matrix</p> <p>Spatial resolution: at measurement point</p> <p>Temporal coverage: from 2003 to 2014</p> <p>Temporal resolution: instantaneous</p> <p>Update frequency: yearly or biannual</p> <p>Product relevancy: at measurement points</p> <p><a href="#">Viewer.</a></p>	

## Nuclear Power Plants

**Product name:** Nuclear power plants

**Type:** data set

**Service source:** EMODnet Human Activities 

**Name ID:** [Nuclear power plants](#)

**Variables:** status, connection to grid date, construction date, country, criticality date, fuel type, gross capacity in MW, location, , model, net capacity in MW, , nuclear stream supply system, number of reactors, operator, plant gross capacity in MW, plant net capacity in MW, plant thermal capacity in MW, reactor name, shut down date, thermal capacity in MW, type, water source.

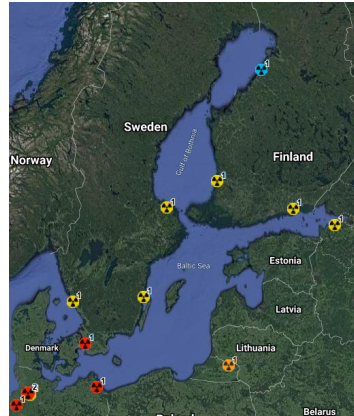
**Temporal coverage:** n/a

**Temporal resolution:** n/a

**Update frequency:** yearly

**Product relevancy:** coast

[Viewer.](#)



## Ocean colour

**Product name:** Baltic Sea surface ratio of upwelling radiance emerging from sea water to downwelling radiative flux in air reprocessed

**Type:** satellite

**Service source:** CMEMS 

**Name ID:** [OCEANCOLOUR BAL OPTICS L3 REP OBSERVATIONS 009 097](#)

**Variables:** surface ratio of upwelling radiance emerging from sea water to downwelling radiative flux in air

**Spatial resolution:** 1 km x 1 km,

**Temporal coverage:** from 1997-09-04 to 2020-06-30

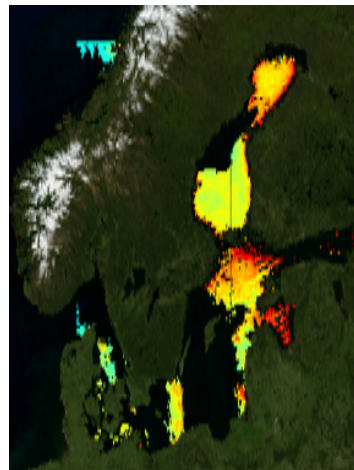
**Temporal resolution:** daily mean

**Update frequency:** irregular

**Product relevancy :** offshore to 1 km by the coast

**Algorithm:** OC-CCI processor


[Viewer.](#)



## Offshore installations

**Product name:** Offshore installations

**Type:** data set

**Service source:** EMODnet Human Activities 

**Name ID:** [Offshore installations](#)

**Variables:** status, category, country, distance to coast, function, location blocks, name, primary production, start year, end year, remarks, water depth

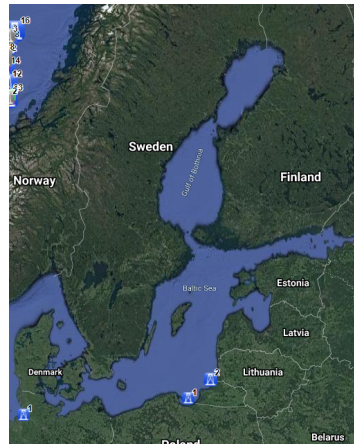
**Temporal coverage:** n/a

**Temporal resolution:** year

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)



## Pipelines

**Product name:** Pipelines

**Type:** data set

**Service source:** EMODnet Human Activities 

**Name ID:** [Pipelines](#)

**Variables:** name, status, medium, operator, size (inches), length (metres), year, country

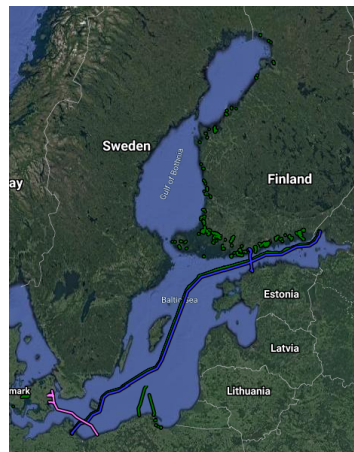
**Temporal coverage:** n/a

**Temporal resolution:** n/a





**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)



## Tributyltin

<p><b>Product name (3 layers): Tributyltin: stations above, below/above, below (LOD/LOQ)</b></p> <p>Type: in situ</p> <p>Service source: EMODnet Chemistry </p> <p>Name ID:</p> <p><a href="#">Tributyltin: stations above LOD/LOQ</a></p> <p><a href="#">Tributyltin: stations above/below LOD/LOQ</a></p> <p><a href="#">Tributyltin: stations below LOD/LOQ</a></p> <p>Variables: quality/adequacy for MSFD purposes of Tributyltin data per matrix (aggregated data per station below, below/above, above LOD/LOQ)</p> <p>Spatial resolution: at measurement point</p> <p>Temporal coverage: from 1999 to 2012</p> <p>Temporal resolution: instantaneous</p> <p>Update frequency: yearly or biannual</p> <p>Product relevancy: at measurement points</p> <p><a href="#">Viewer.</a></p>	
<p><b>Product name (2 layers): Tributyltin: biota and sediment stations</b></p> <p>Type: in situ</p> <p>Service source: EMODnet Chemistry </p> <p>Name ID:</p> <p><a href="#">Tributyltin: biota stations</a></p> <p><a href="#">Tributyltin: sediment stations</a></p> <p>Variables: spatial distribution of Tributyltin data per matrix</p> <p>Spatial resolution: at measurement point</p> <p>Temporal coverage: from 1999 to 2012</p> <p>Temporal resolution: instantaneous</p> <p>Update frequency: yearly or biannual</p> <p>Product relevancy: at measurement points</p> <p><a href="#">Viewer.</a></p>	

## Urban wastewater

**Product name:** Urban wastewater

**Type:** data set

**Service source:** EMODnet Human Activities



**Name ID:** [Discharge plants](#)

**Variables:** country, name, status, type of receiving area, UWWTP code, water body type

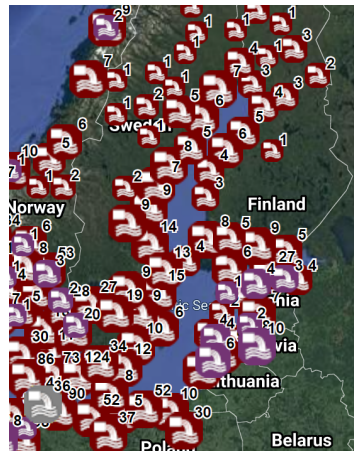
**Temporal coverage:** n/a

**Temporal resolution:** n/a

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)



The EMODnet Chemistry products for MSFD descriptor 8 are based on data concerning the concentration of each contaminant in water, biota and sediment matrices. The units of measurement are respectively:  $\mu\text{g/l}$  in water,  $\mu\text{g/kg}$  of dry weight in sediment, and  $\mu\text{g/kg}$  of fresh weight in Biota – BUT for mussels in dry weight. Maps showing compliance of LOD/LOQ to EQSD are also available for Benzo [A] pyrene and Fluoranthene but not in the Baltic Sea.

## Products relevant for D9, Seafood contaminants

### Nuclear Power Plants

**Product name:** Nuclear power plants

**Type:** data set

**Service source:** EMODnet Human Activities



**Name ID:** [Nuclear power plants](#)

**Variables:** status, connection to grid date, construction date, country, criticality date, fuel type, gross capacity in MW, location, , model, net capacity in MW, , nuclear stream supply system, number of reactors, operator, plant gross capacity in MW, plant net capacity in MW, plant thermal capacity in MW, reactor name, shut down date, thermal capacity in MW, type, water source.

**Temporal coverage:** n/a

**Temporal resolution:** n/a

**Update frequency:** yearly

**Product relevancy:** coast

[Viewer.](#)



## Offshore installations

**Product name:** Offshore installations

**Type:** data set

**Service source:** EMODnet Human Activities



**Name ID:** [Offshore installations](#)

**Variables:** status, category, country, distance to coast, function, location blocks, name, primary production, start year, end year, remarks, water depth

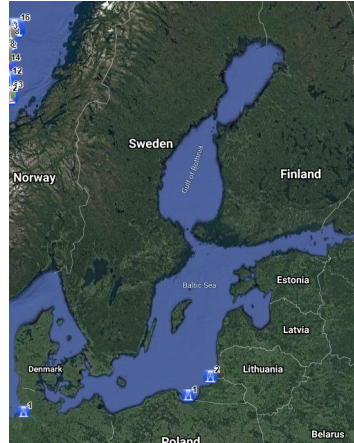
**Temporal coverage:** n/a

**Temporal resolution:** year

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)



## Boreholes

**Product name:** Boreholes

**Type:** data set

**Service source:** EMODnet Human Activities



**Name ID:** [Boreholes](#)

**Variables:** status, country, distance to coast, drilling company, fluid type, name, operator, purpose of drilling, water depth, year

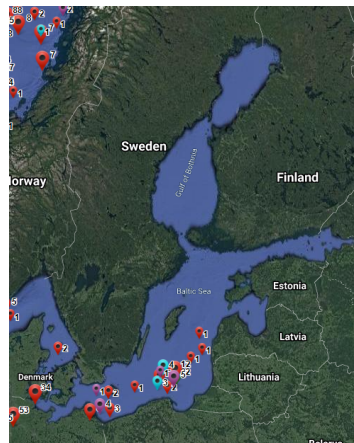
**Temporal coverage:** n/a

**Temporal resolution:** year

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)



## Pipelines

**Product name:** Pipelines

**Type:** data set

**Service source:** EMODnet Human Activities



**Name ID:** [Pipelines](#)

**Variables:** name, status, medium, operator, size (inches), length (metres), year, country

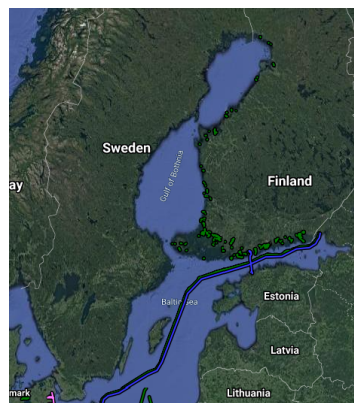
**Temporal coverage:** n/a

**Temporal resolution:** n/a

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)





## Dumped munitions

**Product name:** Dumped munitions

**Type:** data set

**Service source:** EMODnet Human Activities



**Name ID:** [Dumped munitions](#)

**Variables:** munition type, distance to coast

**Temporal coverage:** n/a

**Temporal resolution:** n/a

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)



## Urban wastewater

**Product name:** Urban wastewater

**Type:** data set

**Service source:** EMODnet Human Activities



**Name ID:** [Discharge plants](#)

**Variables:** country, name, status, type of receiving area, UWWTP code, water body type

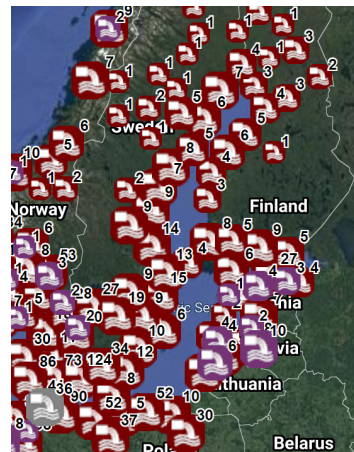
**Temporal coverage:** n/a

**Temporal resolution:** n/a

**Update frequency:** yearly


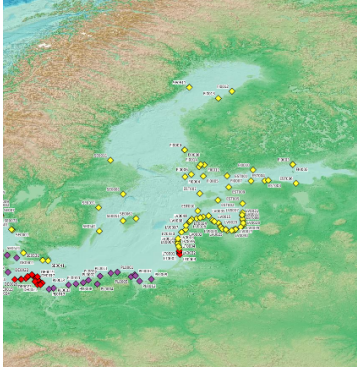

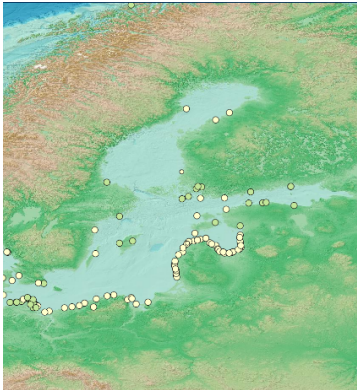
**Product relevancy:** from coast to open sea


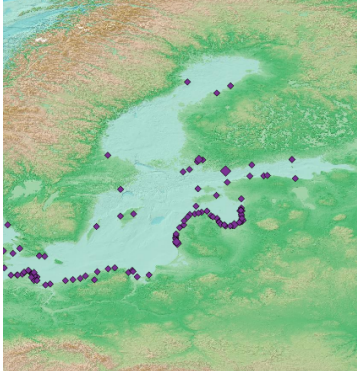
[Viewer.](#)


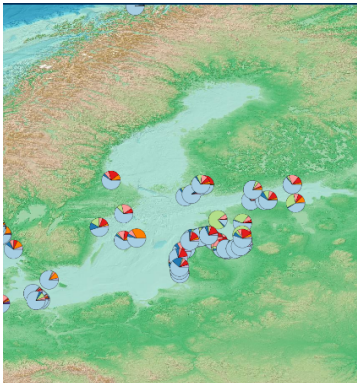



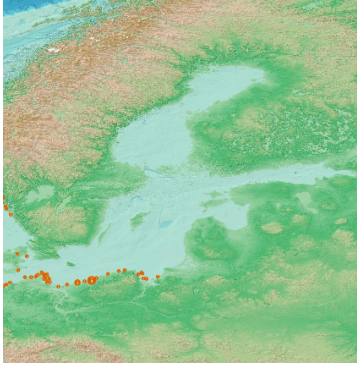

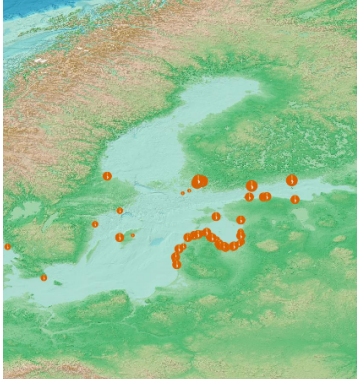
## Products relevant for D10, Marine litter

### Macro litter on the coastline (beach litter)

<p><b>Product name:</b> beaches locations and litter list used - Official monitoring</p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> EMODnet Chemistry </p> <p><b>Name ID:</b> <a href="#">Beaches locations and litter list used - Official monitoring</a></p> <p><b>Variables:</b> list of beach litter items (spatial distribution)</p> <p><b>Spatial resolution:</b> at measurement point</p> <p><b>Temporal coverage:</b> from 2012 to 2018</p> <p><b>Temporal resolution:</b> instantaneous</p> <p><b>Update frequency:</b> yearly or biannual</p> <p><b>Product relevancy:</b> at measurement points</p> <p><a href="#">Viewer</a>.</p>	
<p><b>Product name:</b> number of surveys &amp; temporal coverage - Official monitoring</p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> EMODnet Chemistry </p> <p><b>Name ID:</b> <a href="#">number of surveys &amp; temporal coverage - Official monitoring</a></p> <p><b>Variables:</b> beach litter survey (abundance and temporal extension)</p> <p><b>Spatial resolution:</b> at measurement point</p> <p><b>Temporal coverage:</b> from 2012 to 2018</p> <p><b>Temporal resolution:</b> instantaneous</p> <p><b>Update frequency:</b> yearly or biannual</p> <p><b>Product relevancy:</b> at measurement points</p> <p><a href="#">Viewer</a>.</p>	


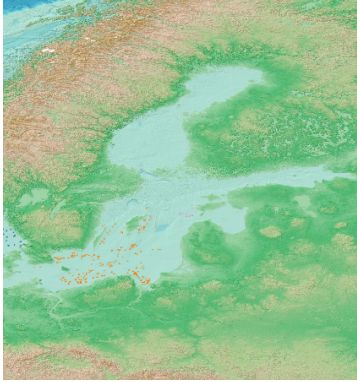

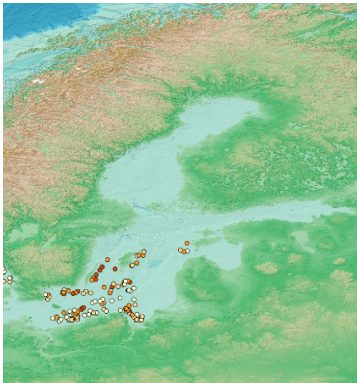

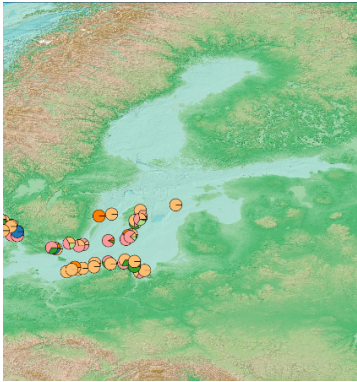
<p><b>Product name: Beach Litter - Mean total number of litter items per 100m &amp; to 1 survey - Official monitoring</b></p> <p>Type: in situ</p> <p>Service source: EMODnet Chemistry </p> <p>Name ID: <a href="#">Beach Litter - Mean total number of litter items per 100m &amp; to 1 survey - Official monitoring</a></p> <p>Variable: litter items (abundance)</p> <p>Spatial resolution: 100 m at measurement point</p> <p>Temporal coverage: from 2012 to 2018</p> <p>Temporal resolution: 1 year</p> <p>Update frequency: yearly or biannual</p> <p>Product relevancy: at measurement points</p> <p><a href="#">Viewer</a>.</p>	
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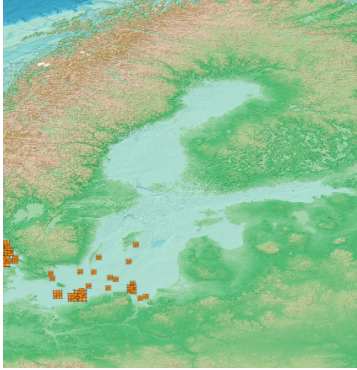

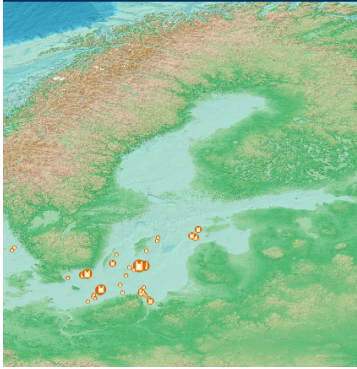
<p><b>Product name: Beach Litter - Composition of litter according to material categories in percent - Official monitoring</b></p> <p>Type: in situ</p> <p>Service source: EMODnet Chemistry </p> <p>Name ID: <a href="#">Beach Litter - Composition of litter according to material categories in percent - Official monitoring</a></p> <p>Variables: beach litter material (composition)</p> <p>Spatial resolution: 100 m at measurement point</p> <p>Temporal coverage: from 2012 to 2018</p> <p>Temporal resolution: 1 year</p> <p>Update frequency: yearly or biannual</p> <p>Product relevancy: at measurement points</p> <p><a href="#">Viewer</a>.</p>	
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<p><b>Product name:</b> Beach Litter - Mean number of Cigarette related items per 100m &amp; to 1 survey - without UNEP_MARLIN - Official monitoring</p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> EMODnet Chemistry </p> <p><b>Name ID:</b> <a href="#">Beach Litter - Mean number of Cigarette related items per 100m &amp; to 1 survey - without UNEP_MARLIN - Official monitoring</a></p> <p><b>Variables:</b> beach litter cigarette related items (abundance)</p> <p><b>Spatial resolution:</b> 100 m at measurement point</p> <p><b>Temporal coverage:</b> from 2012 to 2018</p> <p><b>Temporal resolution:</b> 1 year</p> <p><b>Update frequency:</b> yearly or biannual</p> <p><b>Product relevancy:</b> at measurement points</p> <p><a href="#">Viewer.</a></p>	
<p><b>Product name:</b> Beach Litter - Mean number of Cigarette related items per 100m &amp; to 1 survey - UNEP_MARLIN - Official monitoring</p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> EMODnet Chemistry </p> <p><b>Name ID:</b> <a href="#">Beach Litter - Mean number of Cigarette related items per 100m &amp; to 1 survey - UNEP_MARLIN - Official monitoring</a></p> <p><b>Variables:</b> beach litter cigarette related items (abundance)</p> <p><b>Spatial resolution:</b> 100 m at measurement point</p> <p><b>Temporal coverage:</b> from 2012 to 2018</p> <p><b>Temporal resolution:</b> 1 year</p> <p><b>Update frequency:</b> yearly or biannual</p> <p><b>Product relevancy:</b> at measurement points</p> <p><a href="#">Viewer.</a></p>	

<p><b>Product name:</b> Beach Litter - Mean number of Fishing related items per 100m &amp; to 1 survey - Official monitoring</p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> EMODnet Chemistry </p> <p><b>Name ID:</b> <a href="#">Beach Litter - Mean number of Fishing related items per 100m &amp; to 1 survey - Official monitoring</a></p> <p><b>Variables:</b> beach litter fishing related items (abundance)</p> <p><b>Spatial resolution:</b> 100 m at measurement point</p> <p><b>Temporal coverage:</b> from 2012 to 2018</p> <p><b>Temporal resolution:</b> 1 year</p> <p><b>Update frequency:</b> yearly or biannual</p> <p><b>Product relevancy:</b> at measurement points</p> <p><a href="#">Viewer.</a></p>	
<p><b>Product name:</b> Beach Litter - Mean number of Plastic bags related items per 100m &amp; to 1 survey - Official monitoring</p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> EMODnet Chemistry </p> <p><b>Name ID:</b> <a href="#">Beach Litter - Mean number of Plastic bags related items per 100m &amp; to 1 survey - Official monitoring</a></p> <p><b>Variables:</b> beach litter plastic bag related items (abundance)</p> <p><b>Spatial resolution:</b> 100 m at measurement point</p> <p><b>Temporal coverage:</b> from 2012 to 2018</p> <p><b>Temporal resolution:</b> 1 year</p> <p><b>Update frequency:</b> yearly or biannual</p> <p><b>Product relevancy:</b> at measurement points</p> <p><a href="#">Viewer.</a></p>	

## Macrolitter on the seabed

<p><b>Product name:</b> Seabed litter - Trawls locations</p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> EMODnet Chemistry </p> <p><b>Name ID:</b> <a href="#">Seabed litter - Trawls locations</a></p> <p><b>Variables:</b> trawl type (spatial distribution)</p> <p><b>Spatial resolution:</b> at measurement point</p> <p><b>Temporal coverage:</b> from 2015 to 2018</p> <p><b>Temporal resolution:</b> instantaneous</p> <p><b>Update frequency:</b> yearly or biannual</p> <p><b>Product relevancy:</b> at measurement points</p> <p><a href="#">Viewer.</a></p>	
<p><b>Product name:</b> Seabed litter - Density (Nb. Items/km2)</p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> EMODnet Chemistry </p> <p><b>Name ID:</b> <a href="#">Seabed litter - Density (Nb. Items/km2)</a></p> <p><b>Variables:</b> seabed litter items (density)</p> <p><b>Spatial resolution:</b> at measurement point</p> <p><b>Temporal coverage:</b> from 2015 to 2018</p> <p><b>Temporal resolution:</b> 1 year</p> <p><b>Update frequency:</b> yearly or biannual</p> <p><b>Product relevancy:</b> at measurement points</p> <p><a href="#">Viewer.</a></p>	
<p><b>Product name:</b> Seabed Litter - Material categories percentage per year</p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> EMODnet Chemistry </p> <p><b>Name ID:</b> <a href="#">Seabed Litter - Material categories percentage per year</a></p> <p><b>Variables:</b> seabed litter material (abundance)</p> <p><b>Spatial resolution:</b> at measurement point</p> <p><b>Temporal coverage:</b> from 2015 to 2018</p> <p><b>Temporal resolution:</b> 1 year</p> <p><b>Update frequency:</b> yearly or biannual</p> <p><b>Product relevancy:</b> at measurement points</p> <p><a href="#">Viewer.</a></p>	

<p><b>Product name: Seabed litter - Fishing related items density (Nb. Items/km2)</b></p> <p>Type: in situ</p> <p>Service source: EMODnet Chemistry </p> <p>Name ID: <a href="#">Seabed litter - Fishing related items density (Nb. Items/km2)</a></p> <p>Variables: seabed litter fishing related items (density)</p> <p>Spatial resolution: at measurement point</p> <p>Temporal coverage: from 2015 to 2018</p> <p>Temporal resolution: 1 year</p> <p>Update frequency: yearly or biannual</p> <p>Product relevancy: at measurement points</p> <p><a href="#">Viewer.</a></p>	
<p><b>Product name: Seabed litter - Plastic bags density (Nb. Items/km2)</b></p> <p>Type: in situ</p> <p>Service source: EMODnet Chemistry </p> <p>Name ID: <a href="#">Seabed litter - Plastic bags density (Nb. Items/km2)</a></p> <p>Variables: seabed litter plastic bag related items (density)</p> <p>Spatial resolution: at measurement point</p> <p>Temporal coverage: from 2015 to 2018</p> <p>Temporal resolution: 1 year</p> <p>Update frequency: yearly or biannual</p> <p>Product relevancy: at measurement points</p> <p><a href="#">Viewer.</a></p>	

## Products relevant for D11, Underwater noise

### Boreholes

<p><b>Product name:</b> Boreholes</p> <p><b>Type:</b> data set</p> <p><b>Service source:</b> EMODnet Human Activities </p> <p><b>Name ID:</b> <a href="#">Boreholes</a></p> <p><b>Variables:</b> status, country, distance to coast, drilling company, fluid type, name, operator, purpose of drilling, water depth, year</p> <p><b>Temporal coverage:</b> n/a</p> <p><b>Temporal resolution:</b> year</p> <p><b>Update frequency:</b> yearly</p> <p><b>Product relevancy:</b> from coast to open sea</p> <p><a href="#">Viewer.</a></p>	
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### Dredge spoil dumping

<p><b>Product name:</b> Dredge spoil dumping</p> <p><b>Type:</b> data set</p> <p><b>Service source:</b> EMODnet Human Activities </p> <p><b>Name ID:</b> <a href="#">Dredge spoil dumping</a></p> <p><b>Variables:</b> country, name, distance to coast</p> <p><b>Temporal coverage:</b> n/a</p> <p><b>Temporal resolution:</b> n/a</p> <p><b>Update frequency:</b> yearly</p> <p><b>Product relevancy:</b> from coast to open sea</p> <p><a href="#">Viewer.</a></p>	
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## Dredging

**Product name:** Dredging

**Type:** data set

**Service source:** EMODnet Human Activities



**Name ID:** [Dredging](#)

**Variables:** country, end use, extracted amount in m<sup>3</sup>, extracted amount in tonnes, extraction area, link to web source, material type, permitted amount in m<sup>3</sup>, permitted amount in tonnes, position information, purpose, sea basin, year

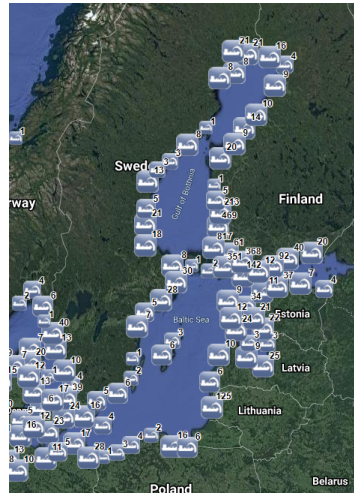
**Temporal coverage:** n/a

**Temporal resolution:** year

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)



## Dumped munitions

**Product name:** Dumped munitions

**Type:** data set

**Service source:** EMODnet Human Activities



**Name ID:** [Dumped munitions](#)

**Variables:** munition type, distance to coast

**Temporal coverage:** n/a

**Temporal resolution:** n/a

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)



## Noise

**Product name:** EMODnet Physics –  
Impulsive Noise Events

**Type:** in situ

**Service source:** EMODnet Physics



**Name ID:** [EP\\_MAP\\_EINR\\_001](#)



**Variables:** noise events


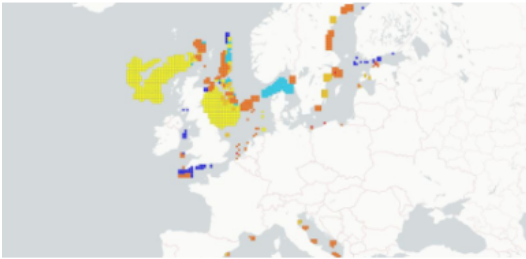
**Temporal coverage:** 2014 - 2019

**Temporal resolution:** irregular


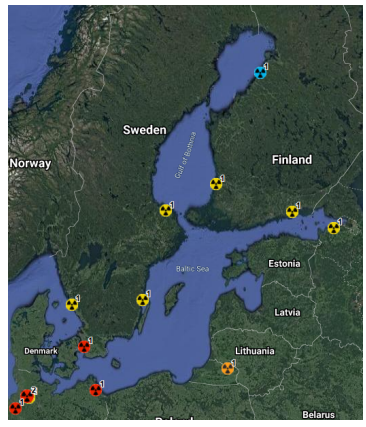
[Viewer.](#)



<p><b>Product name:</b> EMODnet Physics – <b>Impulsive Noise Events</b></p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> EMODnet Physics </p> <p><b>Name ID:</b> <a href="#">EP_MAP_EINR_002</a></p> <p><b>Variables:</b> pulse blocks days</p> <p><b>Temporal coverage:</b> 2014 - 2017</p> <p><b>Temporal resolution:</b> annual</p> <p><a href="#">Viewer</a></p>	
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<p><b>Product name:</b> EMODnet Physics – <b>Impulsive Noise Events</b></p> <p><b>Type:</b> in situ</p> <p><b>Service source:</b> <a href="#">EMODnet Physics</a> </p> <p><b>Name ID:</b> EP_MAP_EINR_003</p> <p><b>Variables:</b> Value codes</p> <p><b>Temporal coverage:</b> 2014 - 2017</p> <p><b>Temporal resolution:</b> annual</p> <p><a href="#">Viewer.</a></p>	
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## Nuclear Power Plants

<p><b>Product name:</b> <b>Nuclear power plants</b></p> <p><b>Type:</b> data set</p> <p><b>Service source:</b> EMODnet Human Activities </p> <p><b>Name ID:</b> <a href="#">Nuclear power plants</a></p> <p><b>Variables:</b> status, connection to grid date, construction date, country, criticality date, fuel type, gross capacity in MW, location, , model, net capacity in MW, , nuclear stream supply system, number of reactors, operator, plant gross capacity in MW, plant net capacity in MW, plant thermal capacity in MW, reactor name, shut down date, thermal capacity in MW, type, water source.</p> <p><b>Temporal coverage:</b> n/a</p> <p><b>Temporal resolution:</b> n/a</p> <p><b>Update frequency:</b> yearly</p> <p><b>Product relevancy:</b> coast</p> <p><a href="#">Viewer.</a></p>	
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## Ocean energy

**Product name:** Ocean energy

**Type:** data set

**Service source:** EMODnet Human Activities



**Name ID:** [Project locations](#)

**Variables:** type, country, device, device scale, distance to coast, start year, end year, link to source, location, position information, project capacity in MW, project name, project promoter, project scale, project status, resource, sea basin, technology

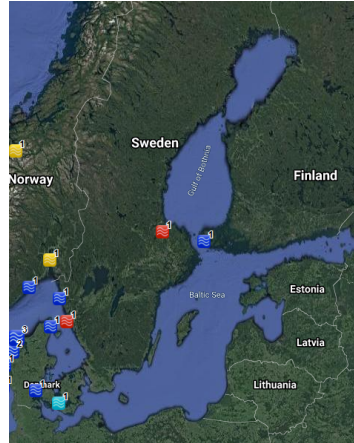
**Temporal coverage:** n/a

**Temporal resolution:** year

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)



## Offshore installations

**Product name:** Offshore installations

**Type:** data set

**Service source:** EMODnet Human Activities



**Name ID:** [Offshore installations](#)

**Variables:** status, category, country, distance to coast, function, location blocks, name, primary production, start year, end year, remarks, water depth

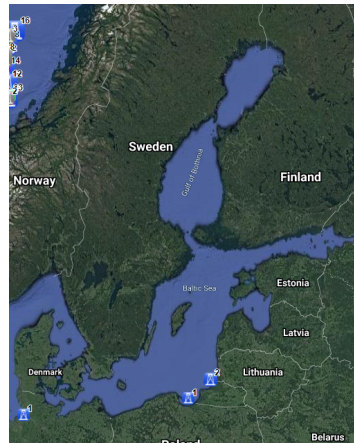
**Temporal coverage:** n/a

**Temporal resolution:** year

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)




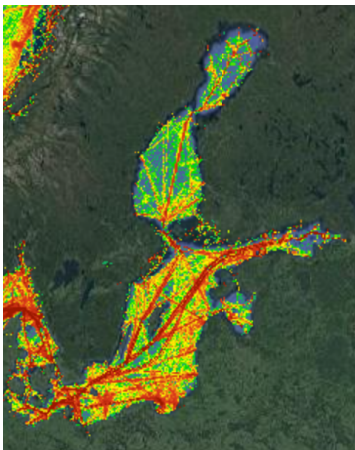
## Pipelines

<p><b>Product name:</b> Pipelines</p> <p><b>Type:</b> data set</p> <p><b>Service source:</b> EMODnet Human Activities </p> <p><b>Name ID:</b> <a href="#">Pipelines</a></p> <p><b>Variables:</b> name, status, medium, operator, size (inches), length (metres), year, country</p> <p><b>Temporal coverage:</b> n/a</p> <p><b>Temporal resolution:</b> n/a</p> <p><b>Update frequency:</b> yearly</p> <p><b>Product relevancy:</b> from coast to open sea</p> <p><a href="#">Viewer.</a></p>	
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## Power cables

<p><b>Product name:</b> Power cables</p> <p><b>Type:</b> data set</p> <p><b>Service source:</b> EMODnet Human Activities </p> <p><b>Name ID:</b> <a href="#">Power cables</a></p> <p><b>Variables:</b> name</p> <p><b>Temporal coverage:</b> n/a</p> <p><b>Temporal resolution:</b> n/a</p> <p><b>Update frequency:</b> yearly</p> <p><b>Product relevancy:</b> from coast to open sea</p> <p><a href="#">Viewer.</a></p>	
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## Route density

<p><b>Product name:</b> Route density</p> <p><b>Type:</b> data product</p> <p><b>Service source:</b> EMODnet Human Activities </p> <p><b>Name ID:</b> <a href="#">Route density</a></p> <p><b>Variables:</b> ship type, routes per square kilometre per month</p> <p><b>Temporal coverage:</b> 2019-2021</p> <p><b>Temporal resolution:</b> month, season, year</p> <p><b>Update frequency:</b> yearly</p> <p><b>Product relevancy:</b> from coast to open sea</p> <p><a href="#">Viewer.</a></p>	
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## Shellfish production

**Product name:** Shellfish production

**Type:** data set

**Service source:** EMODnet Human Activities



**Name ID:** [Shellfish production](#)

**Variables:** species name, species group, species detailed, country, owner name, production method, production stage, purpose, status

**Scale:** vector format file

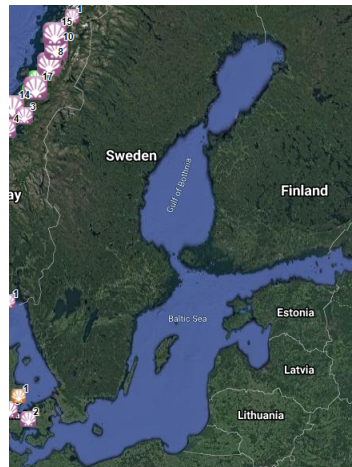
**Temporal coverage:** n/a

**Temporal resolution:** n/a

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)



## Telecommunication cables

**Product name:** Telecommunication cables

**Type:** data set

**Service source:** EMODnet Human Activities



**Name ID:** [Telecommunication cables](#)

**Variables:** name

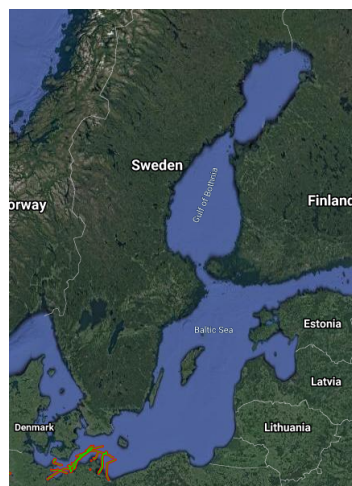
**Temporal coverage:** n/a

**Temporal resolution:** n/a

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)



## Urban wastewater

**Product name:** Urban wastewater  
**Type:** data set

**Service source:** EMODnet Human Activities

**Name ID:** [Discharge plants](#)

**Variables:** country, name, status, type of receiving area, UWWTP code, water body type

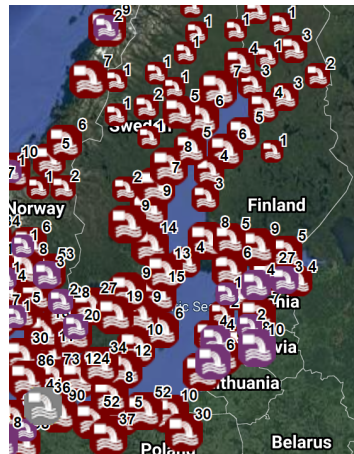
**Temporal coverage:** n/a

**Temporal resolution:** n/a

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)



## Vessel density

**Product name:** Vessel density

**Type:** data product

**Service source:** EMODnet Human Activities

**Name ID:** [Vessel density](#)

**Variables:** ship type, hours per square kilometre per month

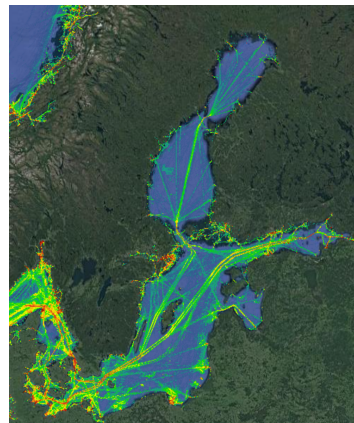
**Temporal coverage:** 2017-2020

**Temporal resolution:** month, year

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)



## Wind energy

**Product name:** Wind farms

**Type:** data set

**Service source:** EMODnet Human Activities

**Name ID:** [Wind farms](#)

**Variables:** status, area, country, distance to coast, name, number of turbines, notes, power (MW), start date,

**Temporal coverage:** n/a

**Temporal resolution:** n/a

**Update frequency:** yearly

**Product relevancy:** from coast to open sea

[Viewer.](#)

