

Updates from EMODnet Thematics EMODnet Chemistry

Alessandra Giorgetti and Eugenia Molina Jack(OGS), Dick Schaap (MARIS), Amandine Thomas (IFREMER)

15th EMODnet Technical Working Group 12 March 2024



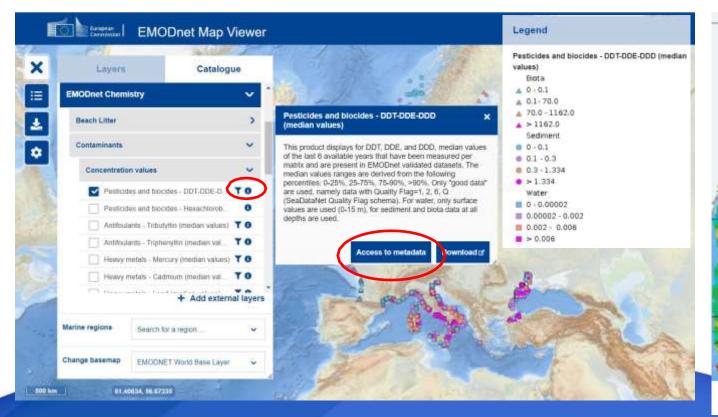
Progress in Chemistry activities since last TWG

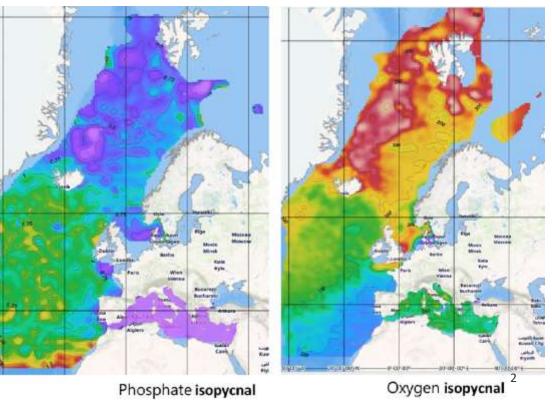
October 2023 started new phase (renewal)



Data products in the Map Viewer

- New contaminants maps hosted by HCMR Geoserver are successfully loaded in the Map Viewer
- New eutrophication maps hosted by ULiege Ocean Browser are still in the testing environment (EM-801, June 2023)
- Pending publication of 5 map layers from webODV in the Map viewer (we are not allowed to advertise webODV services hosted by AWI)





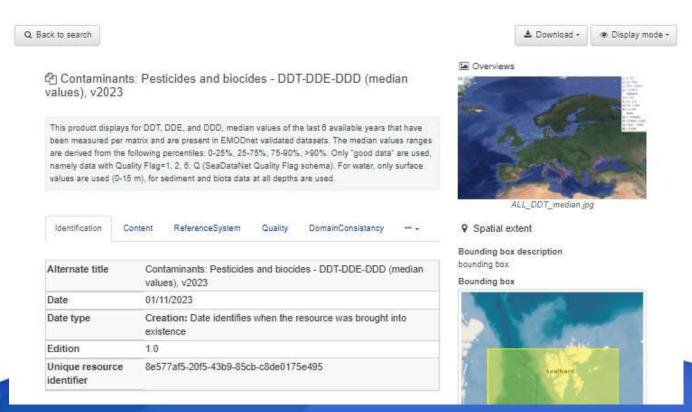
Progress in Chemistry activities since last TWG

October 2023 started new phase (renewal)



Data products in the Products Catalogue

- New metadata records for the maps (pollution, litter, eutrophication) → harvesting from the Chemistry catalog hosted by Ifremer (Sextant CSW)
- New metadata records for eutrophication, litter and pollutants regional data collections → harvesting from the Chemistry catalog hosted by Ifremer (Sextant CSW)
 - Define a strategy to link previous versions to the new release (parent-child as implemented for the DIVA maps updating?)



- Last product version in the viewer
- All product versions in the catalogue

Direct link from the metadata records in the catalogue to the selected product in the Viewer would improve the user experience

Planning for the next year

Chemistry side



Redo

Map Viewer

- Improve contaminants maps: add first layer with all years + add unit in the legend
- New type of contaminants maps: data values abundance per group of animals (Biota charts)
- Identify barriers for the publication of the **5 webODV map layers** with OGC WMS-WFS

Data access

- **New version** of the regional data collections by April 2024 (management of the annual publication)
- Exploring the use of ERDDAP for the regional data collections

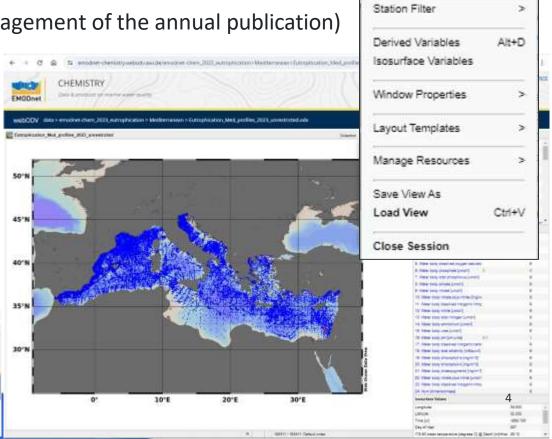
4 new **Use Cases** are underway

- 2 publications (regional data collections)
- data for MSFD Descriptor 5 and 8 (Odv format)
- dashboard with oxygen and nitrate

Improve statistics for KPI 2.B) Usage of data products

• GreyLog with 4 input: OGS, Ifremer, HCMR, and ULiege





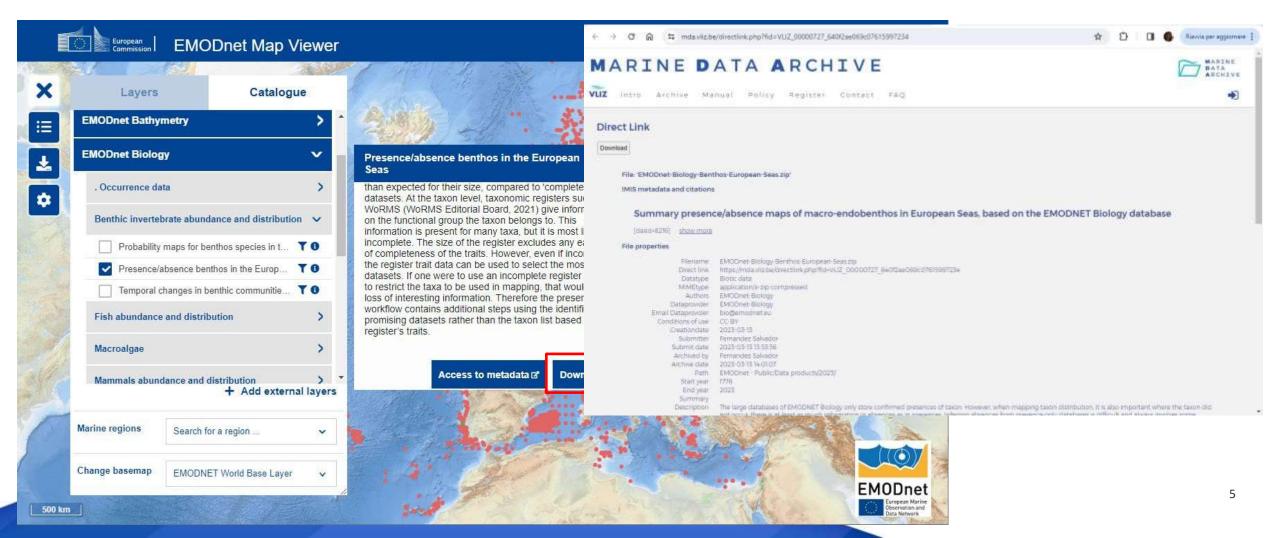
Other examples

Biology side

EMODnet Literatur Verine Character and Character and

Map Viewer

Species distribution

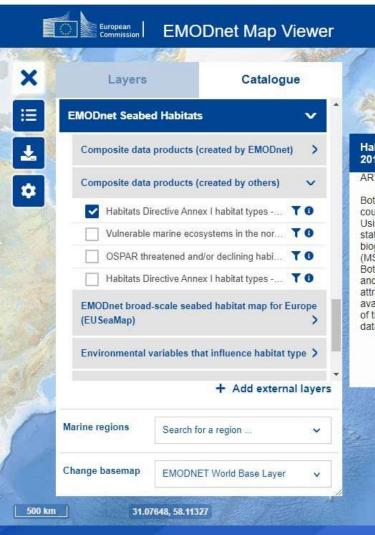


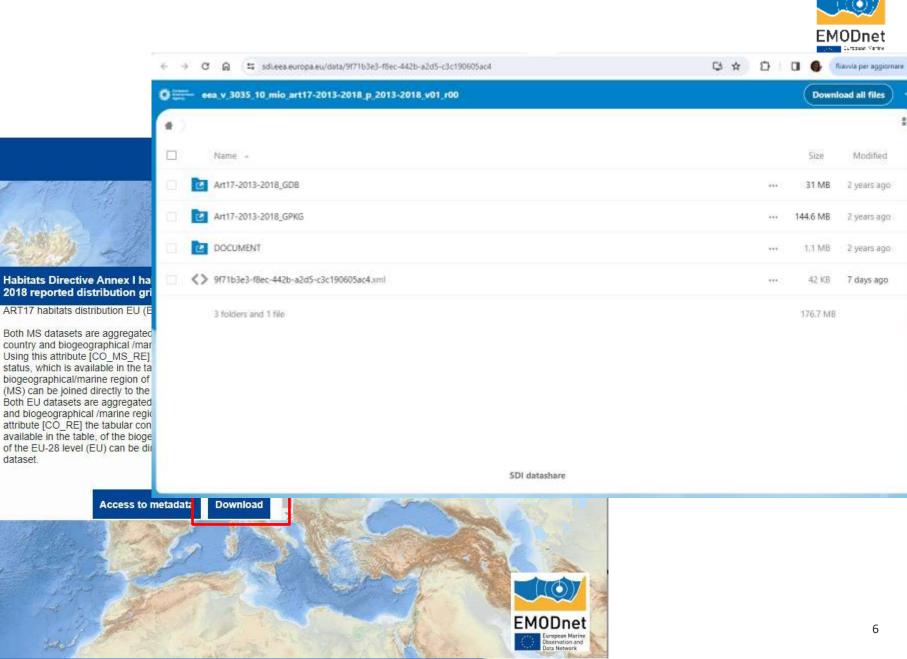
Other examples

Seabed Habitats side

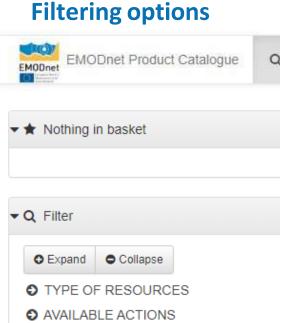
Map Viewer

Composite data products





Improvements in



KEYWORDS

TOPICS

- O CONTACT FOR THE RESOURCE
- PROVIDED BY
- YEARS
- FORMATS
- REPRESENTATION TYPES
- UPDATE FREQUENCIES
- STATUS
- SERVICE TYPES
- SCALE 1:
- RESOLUTION

 Dataset (3754) **[ue**

Series (1693)

TYPE OF RESOURCES

Service (69)

☐ OGC:WMS (33)

- ERDDAP griddap (11)
- OPeNDAP (10) ☐ OGC:WFS (9)
- Open Geospatial Consortium Web M... (9)
- ERDDAP griddap OPeNDAP Open G... (8) -
- ∇iew (3)
- 5 less

AVAILABLE ACTIONS

- Downloadable (2408)
- ☐ Viewable (1794)

O TOPICS

- Oceans (1482)
 - Oceans (1469)
- ☐ Biota (707)
- ☐ Environment (606)
- Geoscientific information (205)
- Elevation (199)
- Boundaries (55)
- Utilities communication (15)
- Location (14)
- Climatology, meteorology, atmosphere (6)
- Economy (6)
- Farming (5)
- Planning cadastre (4)
- Imagery base maps earth cover (3)
- Inland waters (1)
- Structure (1)
- ☐ Transportation (1)
- 12 less

It is very long Not user's customized



- Set appropriate order
- Eliminate duplicates
- Use vocabularies

EDMO names

Rename titles

Can be called THEMES?

- PROVIDED BY EMODnet Biology dataproducts at V... (19)
 - ☐ EMODnet Bathymetry (467)
 - ☐ EMODnet Ingestion (1482)

CONTACT FOR THE RESOURCE

- EMOD-PACE products (central portal) (22)
- ☐ EMODnet Human Activities (47)
- ☐ EMODnet Biology datasets (1321)
- □ EMODnet Chemistry (384)
- EMODnet Seabed Habitats (1417)
- □ EMODnet Physics (133)
- EMOD-PACE data coverage (geodab) (7)
- ☐ EMODnet Geology (187)
- ☐ EMODnet Biology dataproducts at CP (8)
- 7 less

KEYWORDS

Improvements in Filtering options

Filtering options	
EMODnet Product Catalogue	C
▼ ★ Nothing in basket	
▼ Q Filter	
• Expand • Collapse	
TYPE OF RESOURCES	
AVAILABLE ACTIONS	
• TOPICS	
KEYWORDS	
O CONTACT FOR THE RESOURCE	
PROVIDED BY	
• YEARS	
● FORMATS	
REPRESENTATION TYPES	
UPDATE FREQUENCIES	
• STATUS	
SERVICE TYPES	
SCALE 1:	
• RESOLUTION	

YEARS TYPE OF RESOURCES Inva (19) 2024 (106) □ Dataset (3754) 2023 (1919) Series (1693) 2022 (759) Service (69) 2021 (469) ☐ OGC:WMS (33) 2020 (305) ☐ ERDDAP griddap (11) 2019 (410) OPeNDAP (10) 2018 (384) ☐ OGC:WFS (9) 2017 (257) Open Geospatial Consortium Web M... (9) 2016 (237) 2015 (146) ERDDAP griddap OPeNDAP Open G... (8) 2014 (226) ∇iew (3) 2013 (100) 2012 (71) SERVICE TYPES 2011 (68) ☐ OGC:WMS (33) 2010 (31) ☐ ERDDAP griddap (11) 2009 (44) OPeNDAP (10) 2008 (13) 2007 (36) OGC:WFS (9) \square 2006 (32) Open Geospatial Consortium Web M... (9) 2005 (53) ERDDAP griddap OPeNDAP Open G... (8) 2004 (71) ☐ View (3) 2003 (7) OGC:WCS (2) 2002 (7) ☐ OGC:CSW (1) 2001 (5) OGC:WMTS (1) 2000 (1) 1999 (3) 1996 (4) STATUS 1995 (3) 1994 (4) Completed (711) 1993 (1) On going (33) 1992 (2) Historical archive (25) 1991 (2) Under development (6) 1990 (2) 1988 (2) 1987 (2) SCALE 1: 1986 (2) RESOLUTION 1984 (3)

☐ 1983 (1) ☐ 1970 (1) 35 less

It is very long Not user's customized

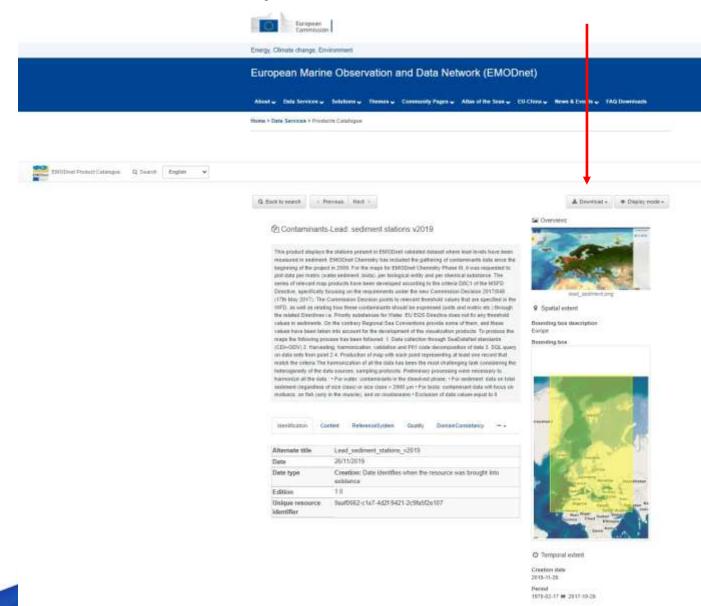


- Set appropriate order
- Eliminate duplicates
- Use vocabularies
- Rename titles
- Misleading to be corrected (YEARS!)
- Identify items to eliminate

- Filtering options answers to
 - What (THEMES)
 - Where (?)
 - Who (CONTACT)
 - When (YEARS related to the data)
 - How

Improvements in the Products Catalogue

View and download product





• Direct download of the resource (EM-574)

 Direct link from the catalogue to viewer in the selected product layer (EM-556)

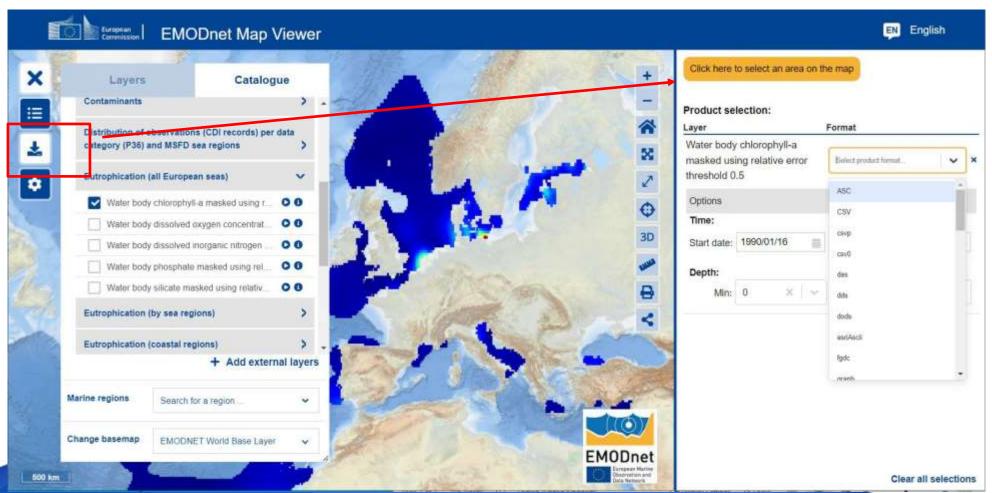
The functionality was already available in the Chemistry portal, so there should be no problems with multiple UUIDs

Download Eutrophication product



The Map Viewer implements two downloading options:

1. The main download icon that brings to a dedicated selection



Download for the selected product with several output formats

Issues:

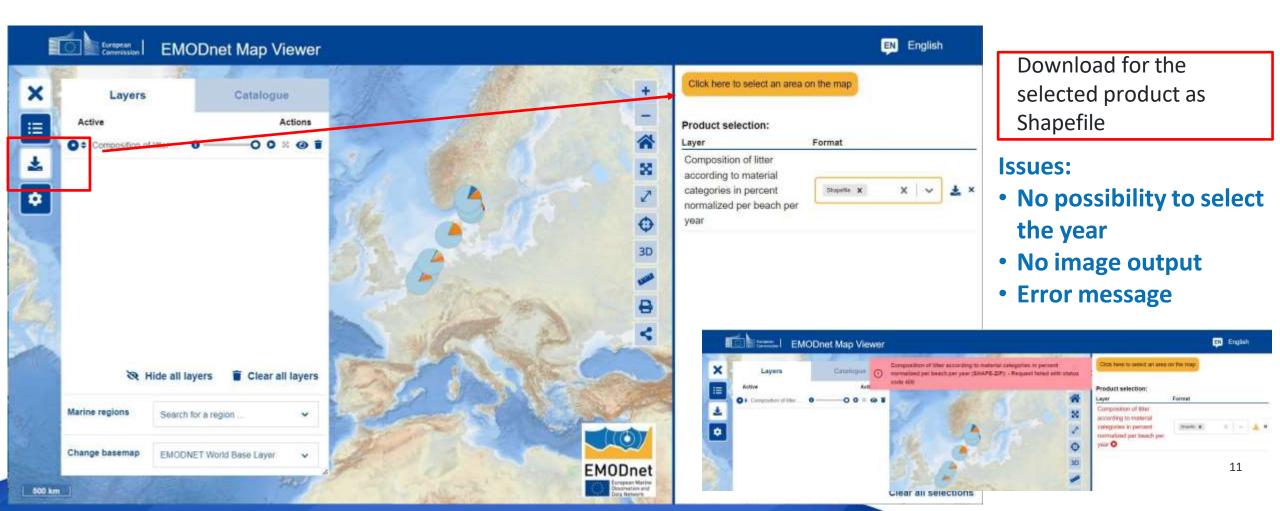
- Output non consistent with selection
- Huge number of output formats
- No image output (.pdf with error)
- No way to select the full domain

Download Beach Litter product



The Map Viewer implements two downloading options:

1. The main download icon that brings to a dedicated selection

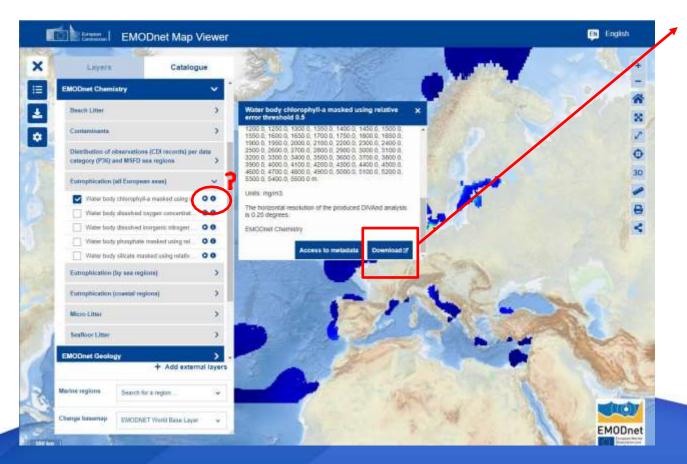


Download full product



The Map Viewer implements two downloading options:

- 1. The main download icon that brings to a dedicated selection
- 2. Download of the full product → hidden under the (1) icon!



Download of the Shapefile for Marine Litter and Contaminants or netCDF files for Eutrophication

This is a very important functionality, placed in the wrong place (not an information linked to 1)!

Users can download:

- the full product (data product)
- the image of the full product (.jpg, .tiff, ...).
- a selection of the product with bounding box

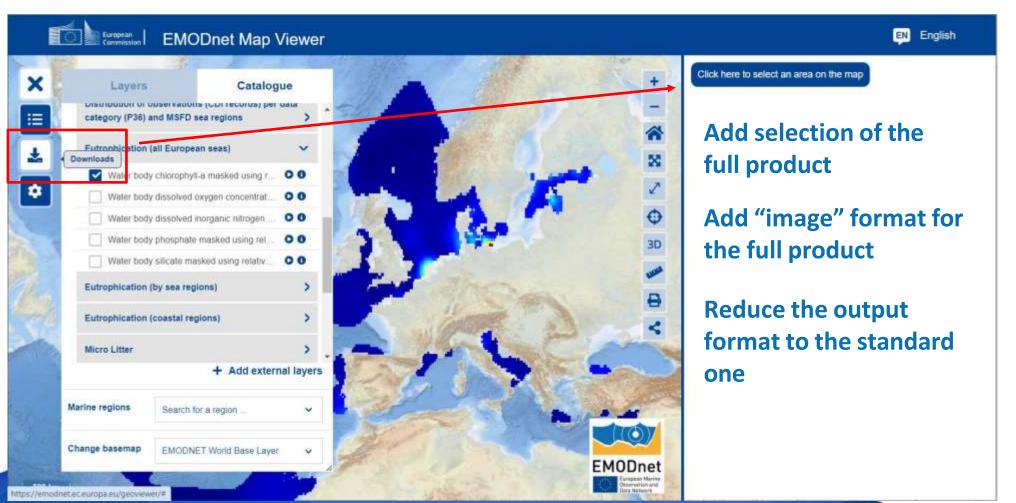
Download full product

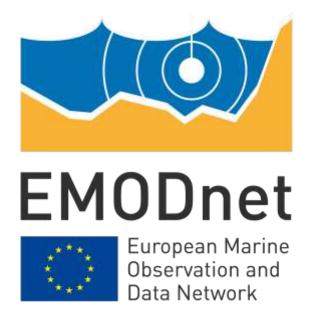


The Map Viewer implements two downloading options:

- The main download icon that brings to a dedicated selection
- - Download of the full product \rightarrow hidden under the 1 icon! \rightarrow Add it in the Downloads icon







emodnet.ec.europa.eu

Stay up-to-date with the latest news







