



EMODnet



European Marine
Observation and
Data Network

EMODnet Chemistry – technical issues

14th EMODnet Technical Working Group
18 October 2023

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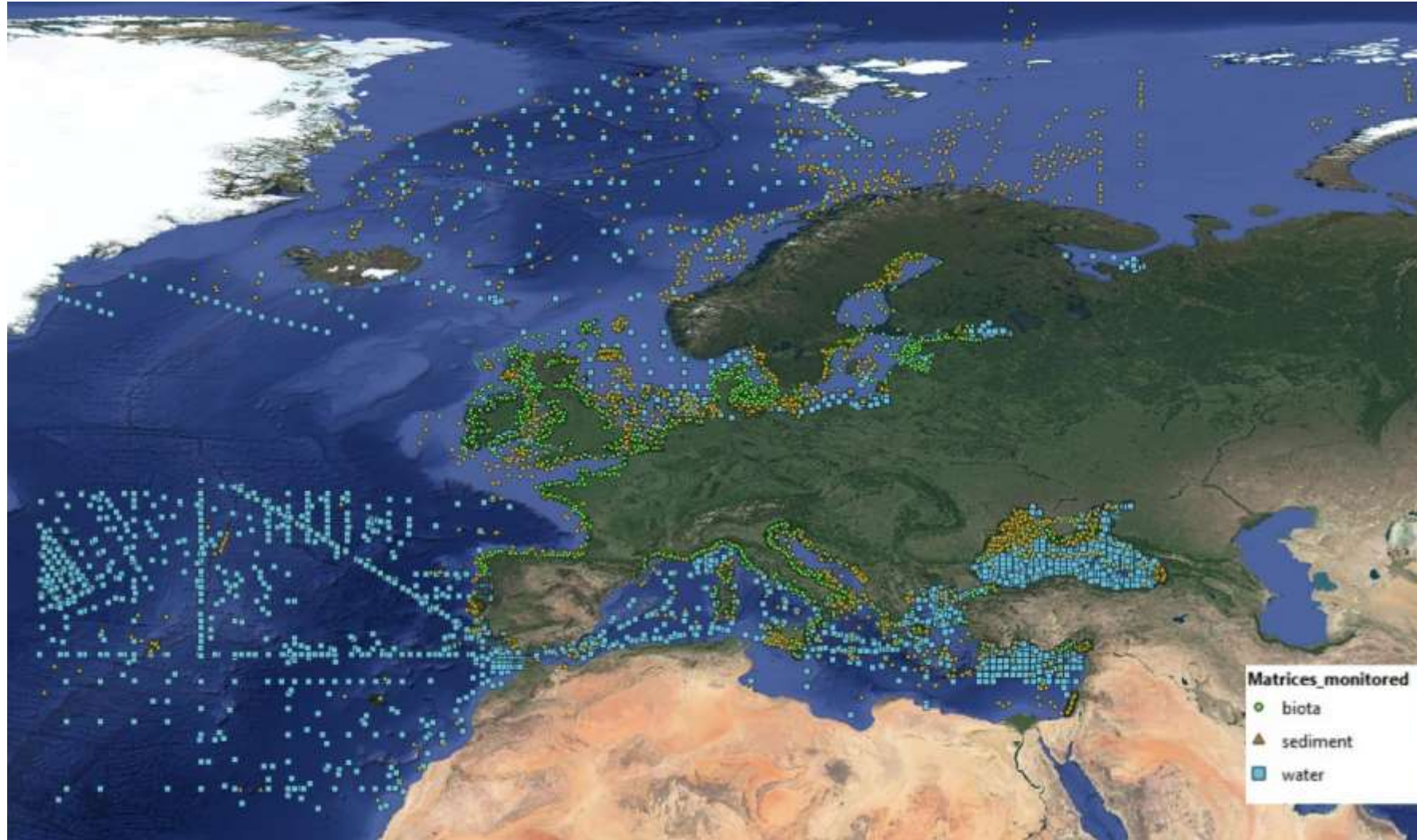
Chemistry

New map products to be inserted

- **Maps for contaminants** are being finalised by HCMR => will be documented in Sextant for harvesting by CP Products Catalogue and for CP Map Viewer by OGC WMS-WFS (qGIS)
 - 1) **Monitored Matrices**, positions per matrix (incl. *animation per year*)
 - 2) **Per Parameter**, positions with values counts and per matrix (incl. *animation per year*)
 - 3) **Per Parameter, colored median values of last 6 years**: positions with colored median values of the last 6 available years using percentiles medians ranges, per matrix (*no animation, unless previous 6 years are produced also*)
 - 4) **Per parameter, Biota charts**: positions with percentages of all available data values per group of animals, for all years (*no animation per year, unless charts per year are produced*)

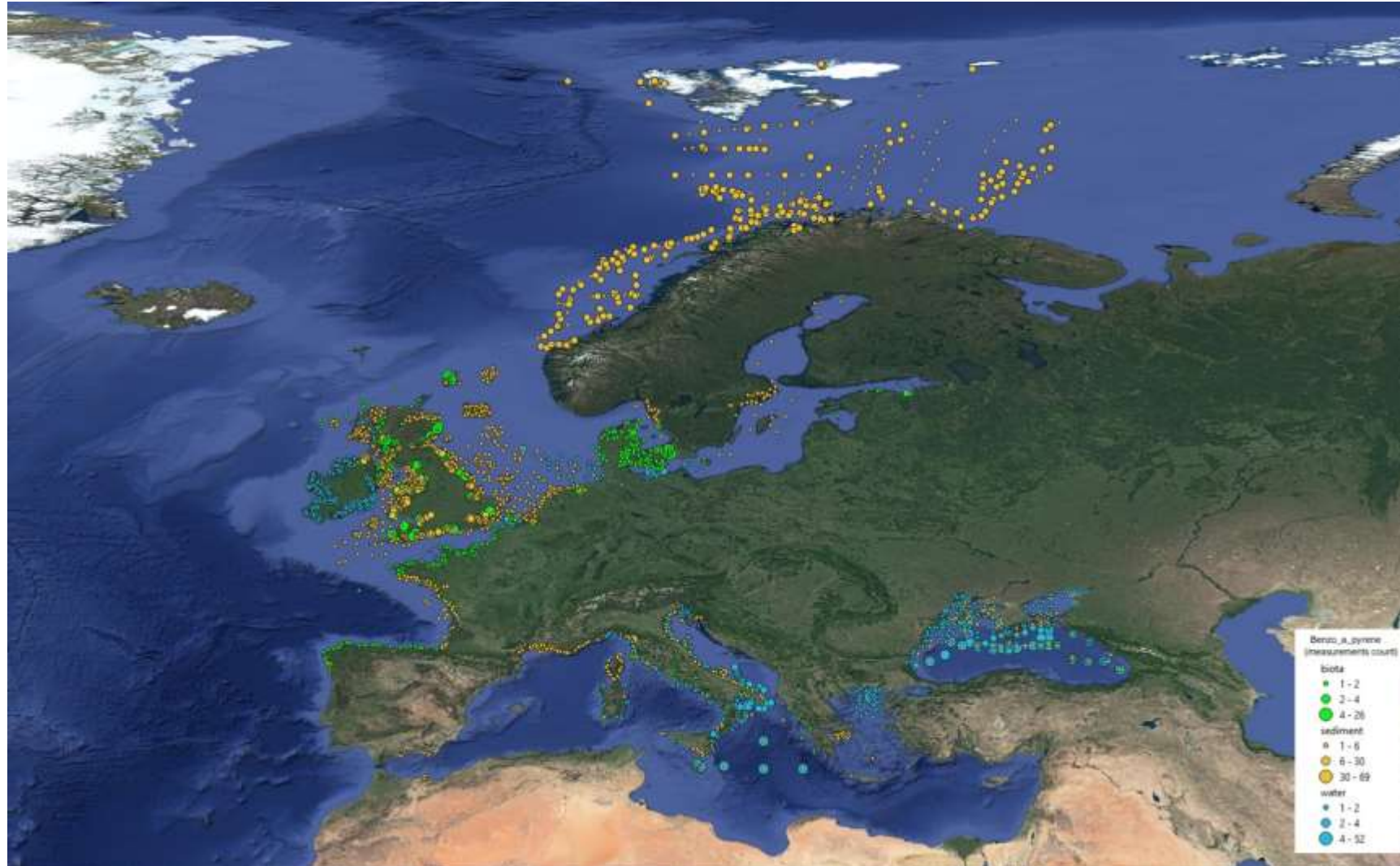
Map1: **Monitored Matrices**, positions symbolized per matrix

All available years

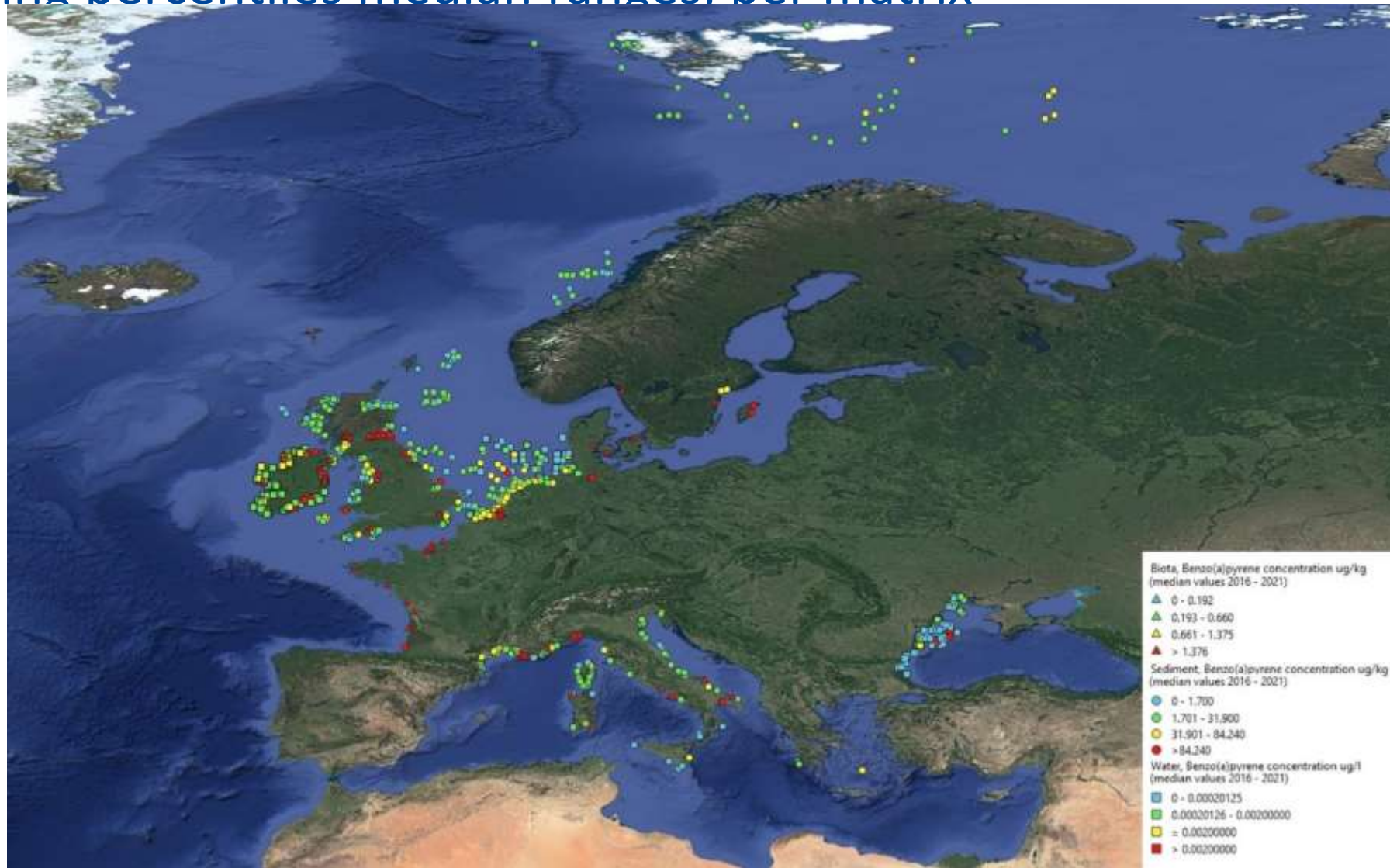


Map2: Per Parameter, positions with values counts and per matrix

All available years



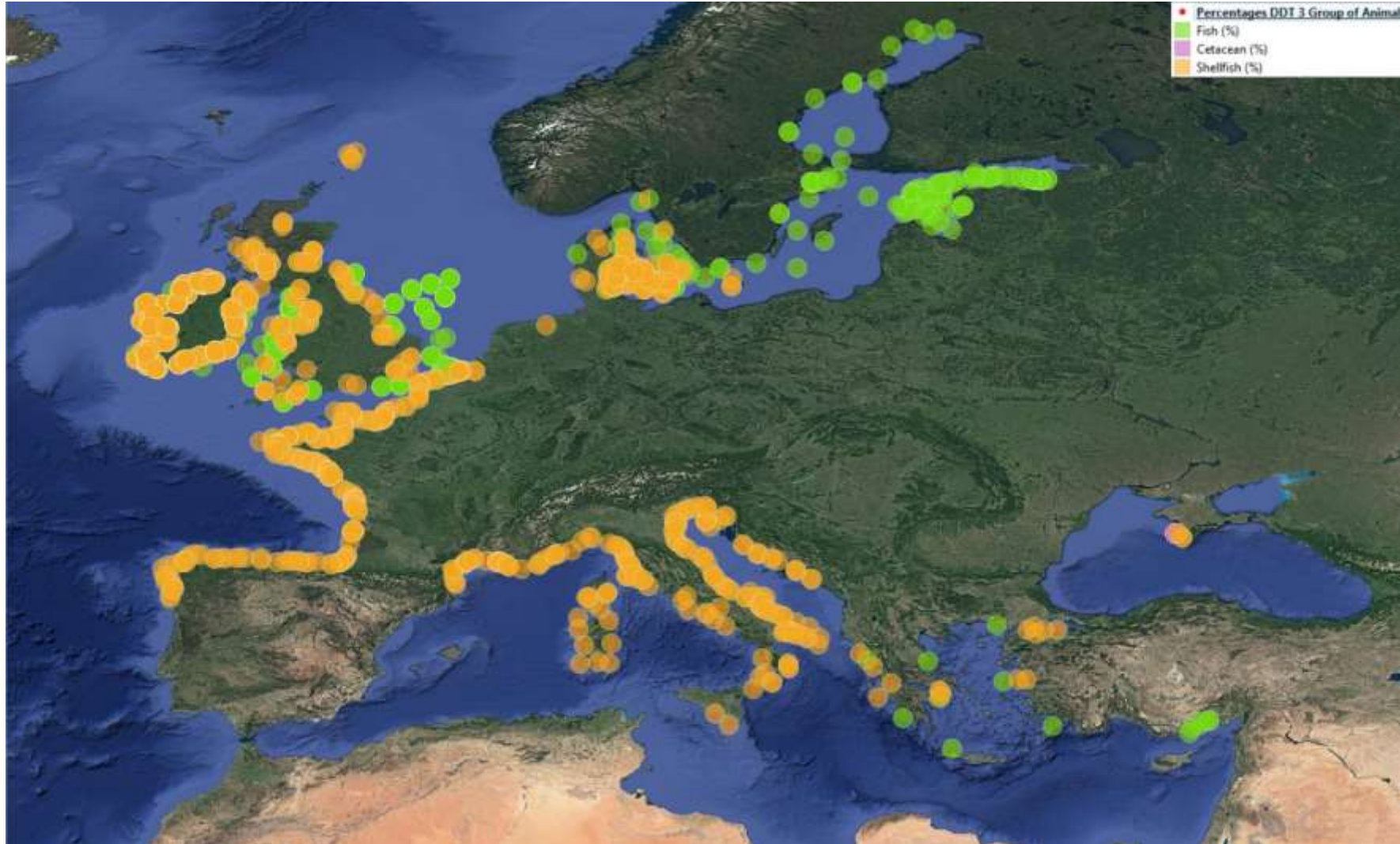
Map3: Per Parameter, colored median values of last 6 years, using percentiles median ranges, per matrix



percentiles
 0 – 25%
 25 – 75%
 75 – 90%
 > 90%

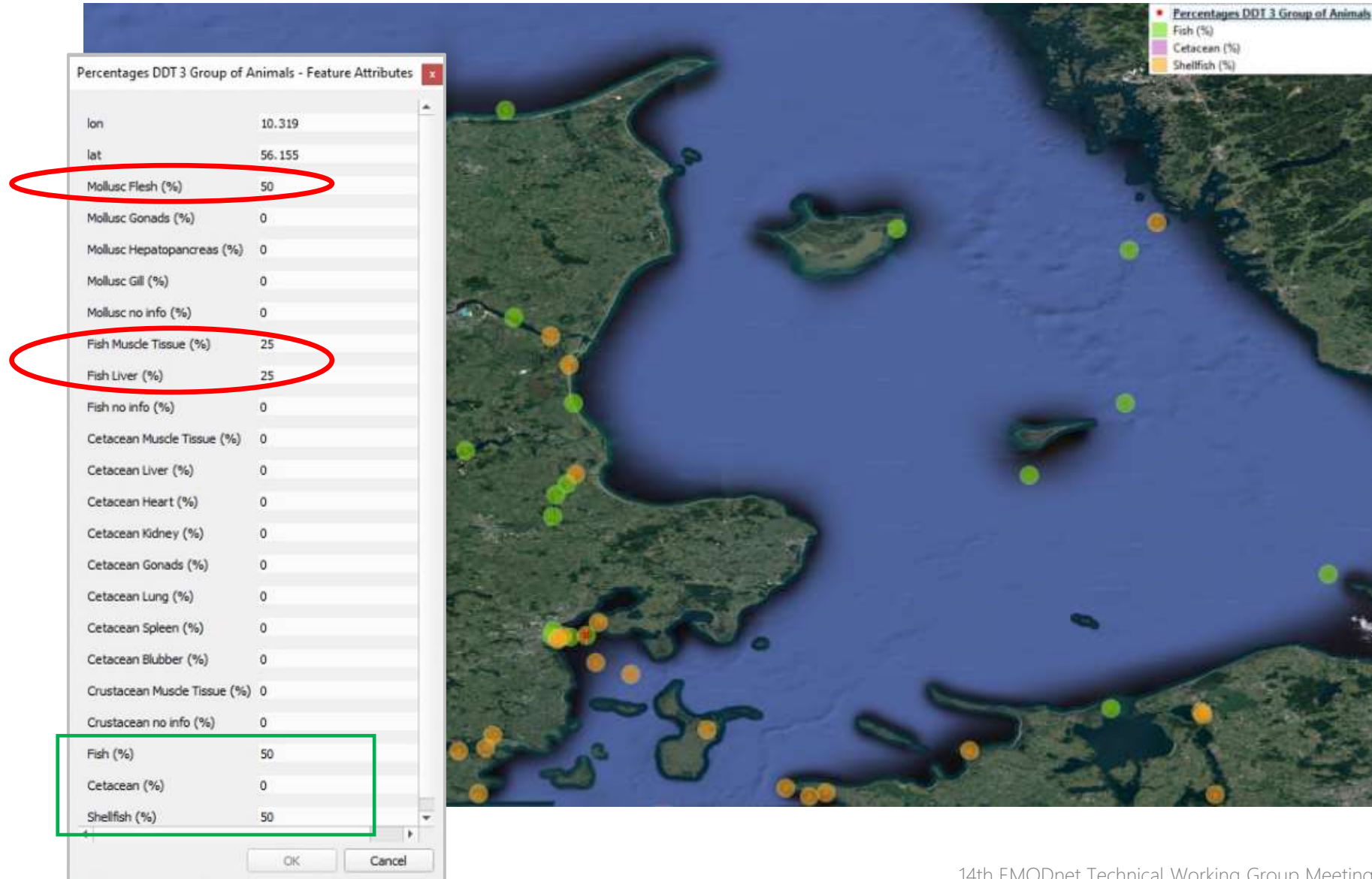
Water: surface values only (0-15m), sediment, biota: all values used

Map4: Per parameter, positions with percentages of all available data values per group of animals , for all years



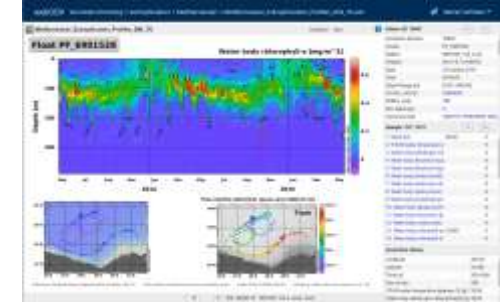
Map4: Per parameter, positions with percentages of all available data values per groups of animals , for all years

Zoom



New map products to be inserted

Chemistry provides the **WebODV Explorer and Extractor service** for eutrophication and contaminants data collections. This facilitates users to explore these validated and harmonised data collections, to make maps, to make interpolated sections, and to extract subsets of data in several formats.



Five new **Maps** have been prepared to promote what users can do with **WebODV** and to attract them to go to WebODV and make use of it.

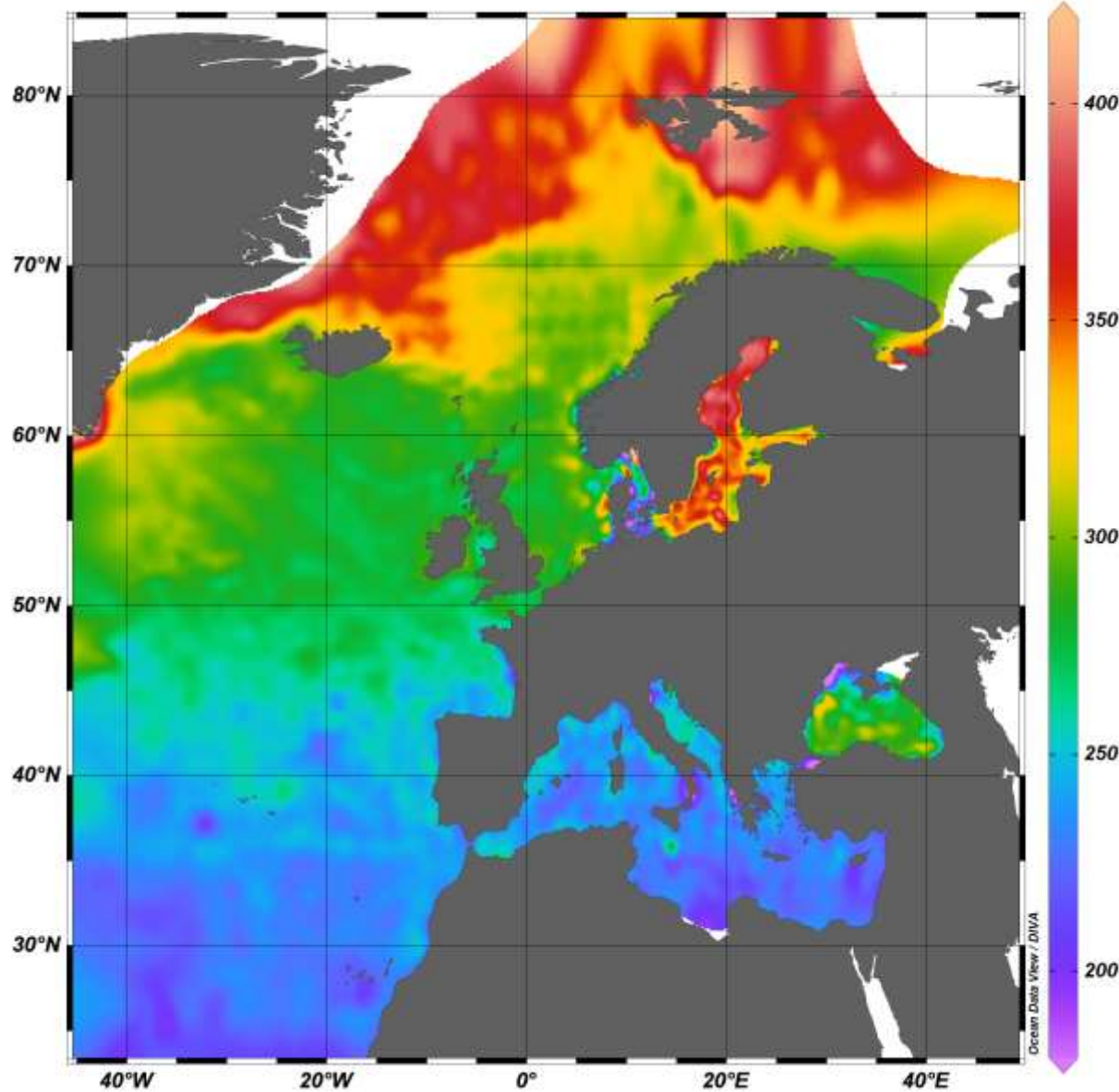
Currently, Sextant entries are being made with metadata. Maps are to be provided by WebODV with OGC WMS-WFS

New subfolder needed: **Contaminants/Eutrophication maps from webODV service**

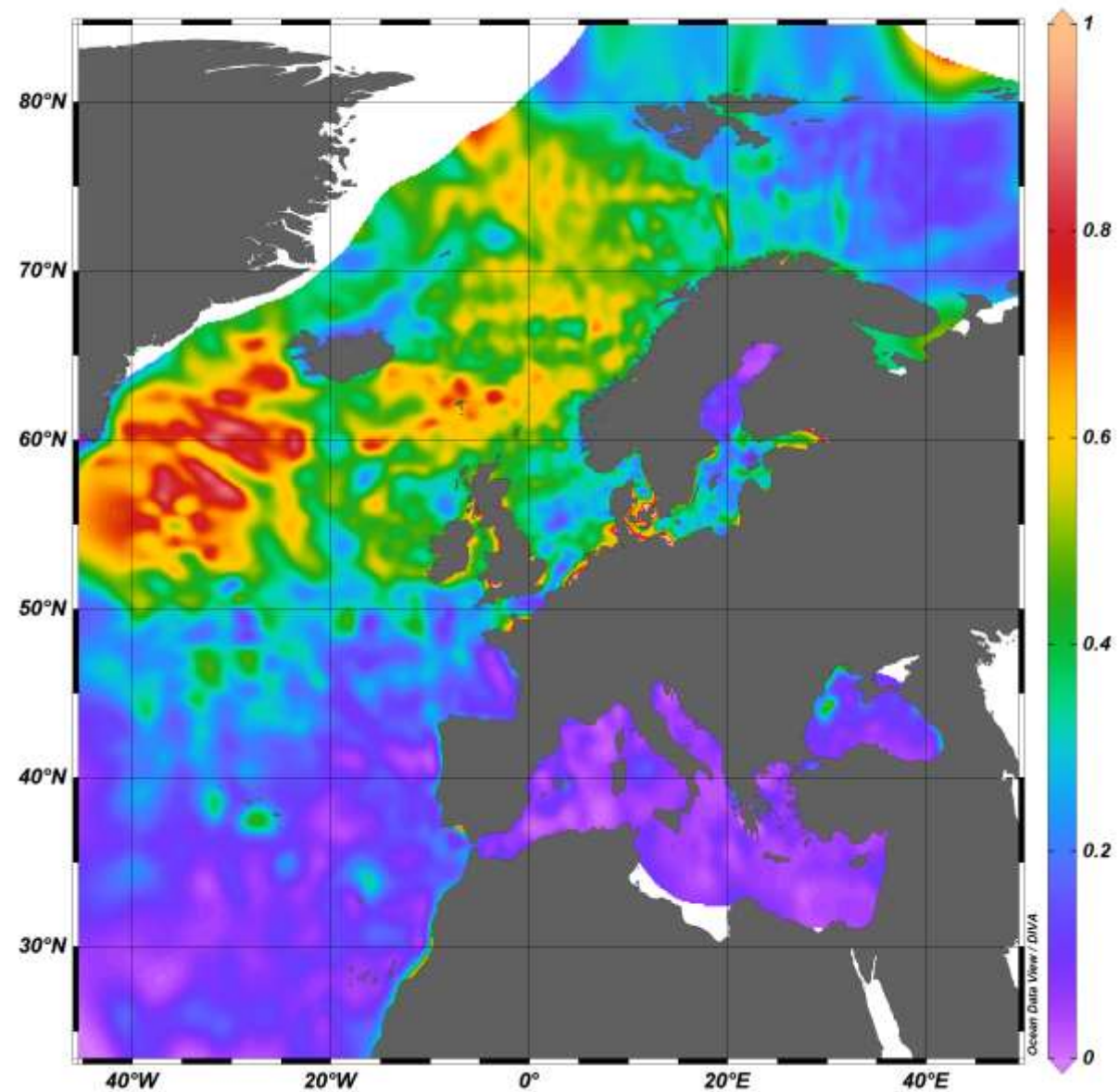
- * **Water body dissolved oxygen concentration (umol/l)@Depth [m] = 20.00**
- * **Water body phosphate (umol/l)@Depth [m] = 20.00**
- * **Depth [m] of the sigma-0=27.75 isopycnal (sigma0-27_75_Depth)**
- * **Oxygen [umol/l] on the sigma-0=27.75 isopycnal (sigma0-27_75_Oxygen)**
- * **PO4 [umol/l] on the sigma-0=27.75 isopycnal (sigma0-27_75_PO4)**

WebODV maps – 2 examples

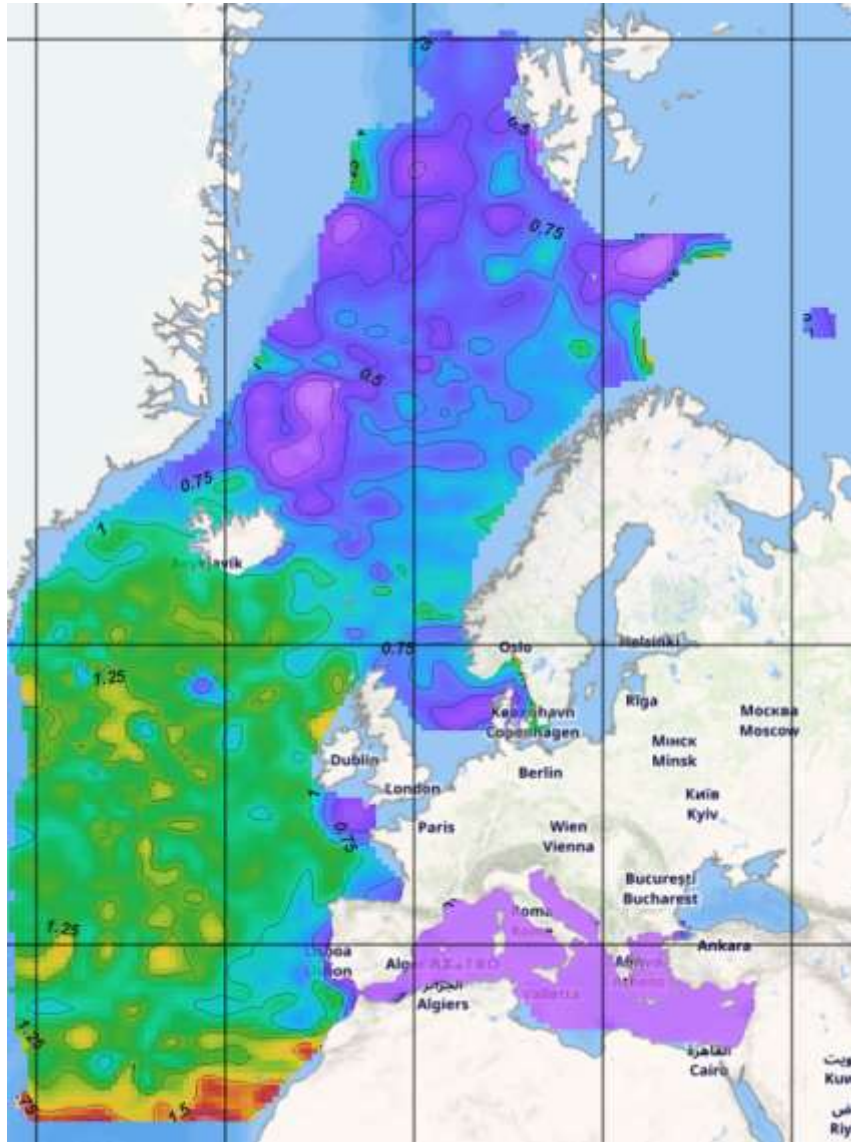
Water body dissolved oxygen concentration [$\mu\text{mol/l}$] @ Depth [m]=20.00



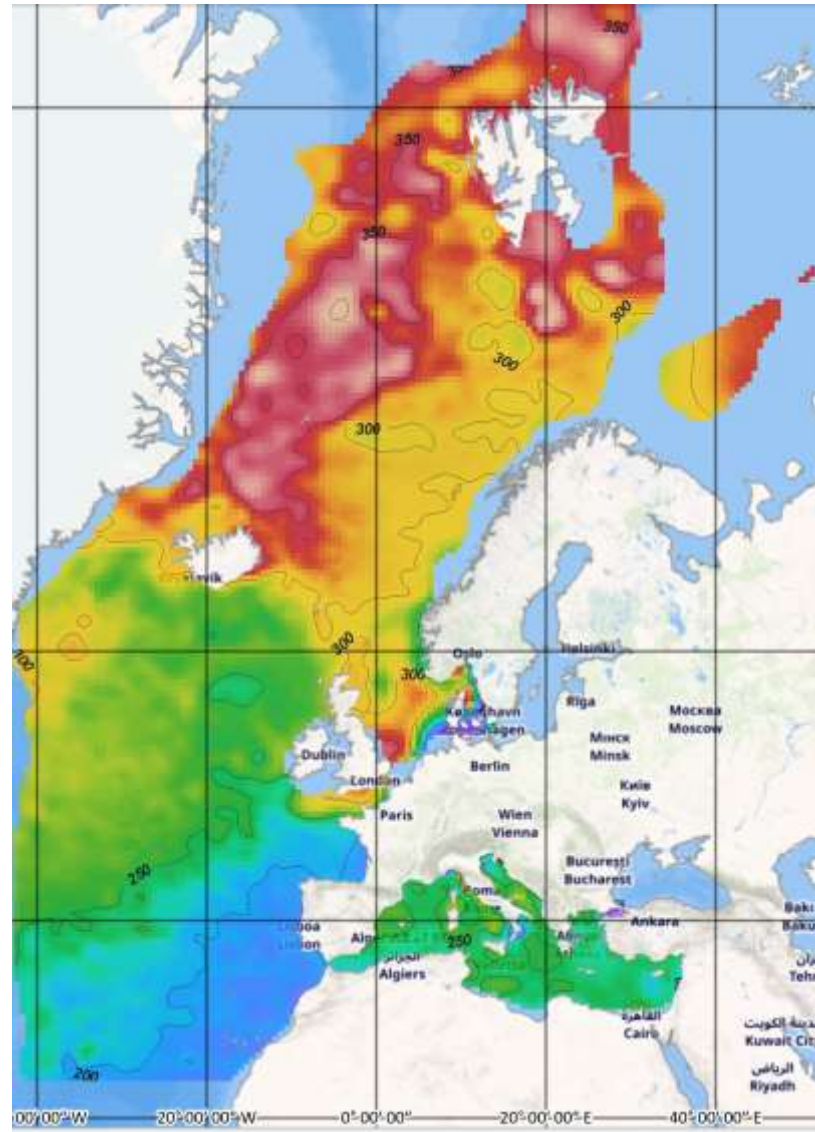
Water body phosphate [$\mu\text{mol/l}$] @ Depth [m]=20.00



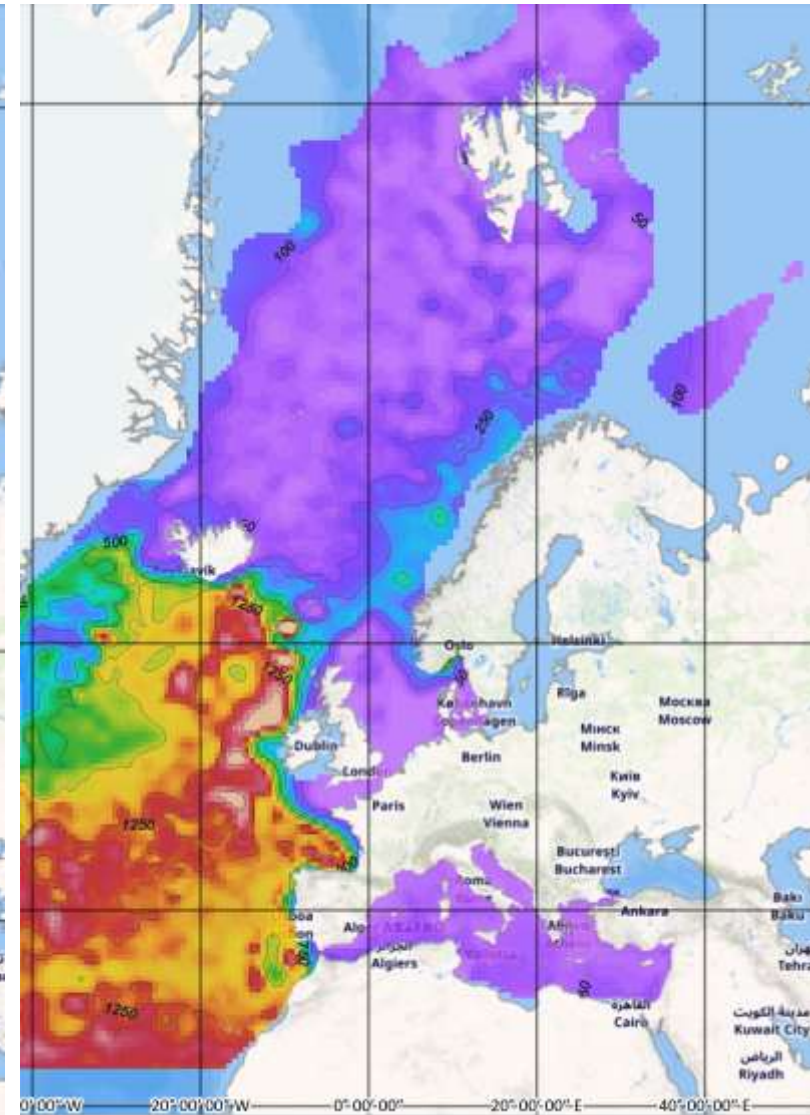
WebODV maps – 3 examples



Phosphate isopycnal



Oxygen isopycnal



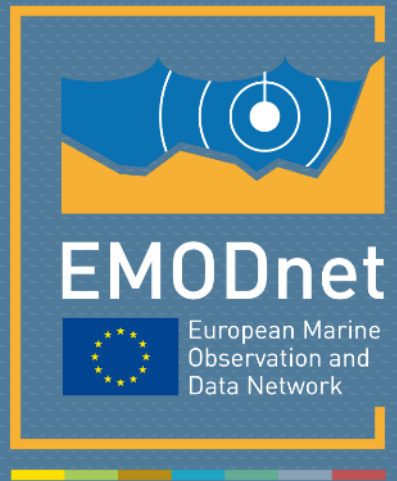
Depth isopycnal

Remaining wishes

- Further improving Get Feature dialogue for CDI data sets layer
- Supporting setting colour ranges and legend for DIVA gridded maps
- Direct links from Product records to CP Map Viewer folders

Chemistry itself working on:

- Getting Download stats again for all products from 4 hosters: OGS, Ifremer, HCMR, and Uliege => exploring use of **GreyLog** with 4 clients and one master
- Harmonisation in download links and other publishing services



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