



EMODnet
European Marine
Observation and
Data Network

EMODnet Sea-basin Checkpoints Results
Chemistry

EMODnet Stakeholder Conference & Sea-basin Workshops
14-15 February 2017

Chemistry theme

Atanas Palazov, IO-BAS, Bulgaria
Black Sea Checkpoint
On behalf of all Ccheckpoints

<http://www.emodnet-blacksea.eu/>



Mediterranean

- ✓ Data availability for rivers input is high (except for the Pollution events) but spatial resolution and temporal coverage is low
- ✓ Horizontal resolution and coverage for all the characteristic categories are not adequate to develop products
- ✓ Almost all of data are not adequate from the point of view of temporal coverage and validity



Atlantic

- ✓ Data for Nitrate and Phosphate concentration in rivers is scattered, often available from local sources only, with the metadata sometimes incomplete (e.g. measuring date)
- ✓ In the North Atlantic, in EMODnet Chemistry 44% of all raw datasets (i.e. 178 000 occurrences) are available by negotiation, which may lower data access
- ✓ Problems with robustness of EMODnet chemistry data access services were reported



Baltic

- ✓ The observed concentration is often too sparse to calculate loads, while the E-HYPE model can be used to fill in the gaps with good results
- ✓ High data confidence for eutrophication is only found in less than half of all sub-seabasins
- ✓ Both EMODnet and ICES have data that others do not have, but it is more time consuming to download EMODnet data
- ✓ Generally, the sub-basins in transition waters and icing waters were lacking sufficient amount of data for the high confidence assessments



North Sea

- River inputs data is very patchy
- The Marine Environment challenge was not able to collect 'whole-basin' data for an assessment of Eutrophication.
- There was a considerable amount of data on water chemistry available through EMODnet on nitrates, phosphates, silicates and ammonium.
- The primary issue with these data is the way in which dates are formatted. These are not in an immediately usable form and the link to the metadata online returns a blank page.



Arctic

- Nutrient data are rather scarce in the Arctic Rivers
- Only nutrients and a couple of chemicals are described in the six largest rivers, and the data are recent
- It is difficult to create time series from the available data



Black Sea

- There are significant amounts of chemical data available for Black Sea
- The available data is sufficient to generate the requested products
- High number of errors in data format (ODV)
- More than 60% of data is unrestricted

