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EMODnet Chemistry new and consolidated large scale cooperation actions for 2020 and beyond

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EMODnet Chemistry is one of the seven thematic portals of EMODnet (European Marine Observation and Data Network), the long-term initiative aiming to ensure that European marine data are findable, accessible, interoperable and re-usable. EMODnet was launched by DG MARE in 2009 as the pillar of the Blue Growth strategy, Marine Knowledge 2020.

Eutrophication (e.g. nutrients, oxygen and chlorophyll), contaminants (e.g. hydrocarbons, pesticides, heavy metals, antifoulants) and marine litter (e.g. beach litter, seafloor litter and floating micro litter) are the main categories of quality assured marine data sets and data products made available through the EMODnet Chemistry portal.

45 marine research and monitoring institutes and oceanographic data management experts from 30 countries comprise the EMODnet Chemistry network, including National Oceanographic Data Centres (NODC), National Environmental Monitoring Agencies and Marine Research Institutes actively involved in managing, processing and providing access to data sets from European marine waters and global oceans.

During 2020 EMODnet Chemistry consolidated fundamental international collaborations and upgraded cooperation actions on the European and global level to share and harmonize data, knowledge and services, following decision-makers' needs to implement EU directives, such as MSFD, MSPD, INSPIRE directive, and the Agenda 2030 Sustainable Development Goals of the United Nations

Main EMODnet Chemistry 2020 transnational cooperation actions are:

- The MSFD Technical Group on Marine Litter used the EMODnet Chemistry Marine Litter Database to compute the EU beach litter quantitative Baselines and Threshold values.
- The European Environment Agency confirmed the use of EMODnet Chemistry data for three environmental state indicators relating to eutrophication and contaminants.
- Mercator Ocean International and EMODnet Chemistry set up the first joint portfolio of products in support of the MSFD implementation. The two partners are also exploring opportunities to support the aquaculture sector.
- EMODnet -Chemistry and the In Situ Thematic Assembly Centre of the Copernicus Marine Environment Monitoring Service (CMEMS INSTAC) collaborated with ENVRI Marine European Research Infrastructures (Euro-Argo, EMSO, ICOS, Lifewatch and SeaDataNet) to enhance FAIRness of in situ data.
- Mercator Ocean international, UNDESA, SULITEST NGO and EMODnet Chemistry have been creating an awareness questionnaire to raise awareness on the Goal 14 of the UN Agenda 2030 for Sustainable Development.
- The EU asked EMODnet Chemistry to share its experience at the G20 workshop on harmonized monitoring and data compilation of marine plastic litter organized by the Ministry of the Environment, Japan.
- The international Oxygen data portal and Ocean Acidification data portal received contributions from EMODnet Chemistry and CMEMS in situ TAC for their implementation.
- The National Marine Data and Information Service of China collaborates with EMODnet to strengthen international ocean data through the EMOD-PACE project.

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