

EGU2020-21908

<https://doi.org/10.5194/egusphere-egu2020-21908>

EGU General Assembly 2020

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## **EMODnet: FAIR and open source marine data, digital products and services**

**Jan-Bart Calewaert**, Kate Larkin, Conor Delaney, Andree Anne Marsan, and Tim Collart  
EMODnet Secretariat, Ostend, Belgium (secretariat@emodnet.eu)

Unlocking the potential of big ocean data relies on Findable, Reusable, Interoperable and Reusable (FAIR) data. This is a core principle of the European Marine Observation and Data network (EMODnet), a leading long-term marine data service provider, funded by the EU. Over 150 organizations deliver harmonized data through seven portals spanning bathymetry, geology, physics, chemistry, biology, seabed habitats and human activities, with a central portal. Recent data and data products include a high-resolution digital terrain model bathymetry product, digital vessel density maps, marine litter maps and products on geological features. International use cases include sustainable fisheries management and offshore wind farm development. The EMODnet Data Ingestion Service enhances data sharing and the EMODnet Associated Partnership Scheme offers benefits for industry and wider stakeholders. Increasingly, EMODnet is interacting and collaborating with other key marine data initiatives in Europe and globally. This includes collaborations with Copernicus Marine Service (CMEMS), SeaDataCloud and others to develop the pilot Blue Cloud as a marine component of the European Open Science Cloud (EOSC), as well as with China, USA and international organisations such as IODE/IOC. This presentation/contribution will provide an update on EMODnet developments, with a future outlook considering main challenges and opportunities and touch upon key collaborations with other marine data initiatives in Europe and globally.