



Eutrophication and acidification in marine ecosystems: North Sea use case



Country:

Domain: Blue Economy

Marine ecosystems are severely exposed to increasing temperatures and acidifying sea waters, as a consequence of human activities. The timely assessment of marine ecosystem conditions required to combine physical and biogeochemical data produced by different monitoring services operating at the best available spatiotemporal scales. All this information requires appropriate data workflow management for its correct integration and successful provision of consistent environmental metrics. This use case will demonstrate a consistent exploitation of Copernicus data to support the monitoring of the SDG 14 'Life under water' for the North Sea, as developed within the [SDG-EYES project](#). The North Sea use case will set the ground to implement a spatially explicit mapping of seawater acidification and eutrophication using Copernicus Marine datasets. Automated products are being developed to monitor the SDG indicators "Global mean ocean surface acidity" and "Marine waters affected by eutrophication" (as defined by [Eurostat ESMS indicator profile](#)), with a co-design approach involving relevant stakeholders.