



Operational prediction of marine ecosystems through an integrated modelling approach

The ocean biodiversity supports the livelihoods of over three billion people, providing vital services, including food supply and nutrient cycling. However marine policy and management do not yet take advantage of the latest scientific advances in marine ecosystem modelling, even when the state-of-the-art ocean operational services are used. A new European and UN Decade project, NECCTON, aims at enabling the operational Copernicus Marine Service system to deliver novel products that inform the conservation of marine biodiversity and the sustainable management of seafood resources. NECCTON's approach is to fuse new data into innovative ecosystem models that integrate biological and abiotic components, habitats, and stressors of marine ecosystems. In this talk we provide an overview of how NECCTON is inter-linking new models in the Copernicus Marine Service, building novel operational capacities to (i) simulate higher-trophic-levels (fishes and marine mammals), benthic habitats, pollutants, as well as (

Stefano Ciavatta and the NECCTON partnership - Affiliation: Mercator Ocean international