Welcome

Welcome to our MOOC "Operational Oceanography for the Service of Society".

In this course, you will learn about general knowledge of operational oceanography: what it is, how it works, the services it provides to society, and how it contributes to support the sustainable uses of the ocean.

You will be introduced to the key concepts underlying operational oceanography, and the process by which in situ observations; satellite data and numerical modelling contribute to deliver essential services in real time, related to coastal hazards, pollution, marine food, marine trade and navigations, natural resources and energy.

You will discover and handle ocean data viewer tool and apply it to case studies. You will have to manipulate, search and assume in order to find answers to physical and biogeochemical phenomena in the ocean.

You will be confronted with examples of use cases and discover a sample of what operational oceanography can provide to users at the end of the chain.

Learning Goals

- To understand the vulnerability of the ocean and of necessary measures towards sustainability
- To identify the need of information and the value of data to inform and make decisions
- To understand basic metrics: climatologies, thresholds, trends … that are used to assess the ocean
- To use Copernicus Marine Service web interfaces to search, select, visualise and interpret data
- To interpret a forecast and understand its limits with respect to different uses