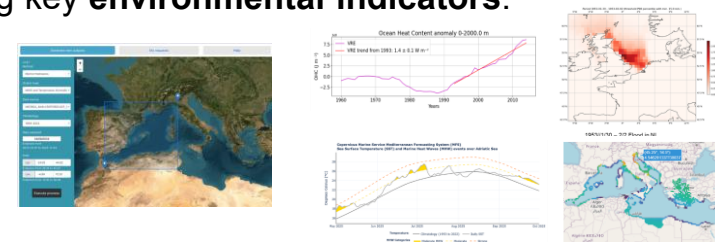


Marine Environmental Indicators Virtual Laboratory

The Marine Environmental Indicators (MEI) Virtual Laboratory enables users to **monitor** and **evaluate** the **environmental conditions** of **marine areas**, providing essential **support** for decision-making in **ocean management**.

This Virtual Laboratory represents a unified analytical virtual environment integrating **multiple data sources** for **data processing** on the cloud via Jupyter Notebooks and user-friendly **web application**, available for the following key **environmental indicators**:

- **Marine Heatwaves (MHW)**
- **Ocean Heat Content (OHC)**
- **Eutrophication (TRIX)**
- **Storm Severity Index v2 (SSlv2)**



It strengthens the Mission’s digital ocean and ocean knowledge objectives by improving the **availability**, **usability**, and **transparency** of **marine environmental indicators** for monitoring, **climate adaptation**, and risk assessment.

This Virtual Laboratory is operational on the Blue-Cloud 2026 and is designed to be **transferable** and **replicable** across marine regions and user communities.

