At a glance

Name

EERIE (European Eddy-RIch Earth System Models)

Coordinated by

Thomas Jung (AWI), Malcolm Roberts (MetOffice) and Pier Luigi Vidale (University of Reading)

When

01.01.2023 >> 31.12.2026

Budget

7.8 M€ + 3M€ (associated partner): total 10.8 M€

Who

17 partners from 9 countries across Europe and Africa

What is EERIE about?

Climate is shaped by numerous processes, not only the greenhouse gases emitted into the atmosphere as a result of human activity. Earth system models simulate physical, chemical and biological processes and how these work together, integrating the interactions of atmosphere, ocean, land, ice and biosphere to estimate climate under various conditions. Until now, these models have omitted ocean mesoscale eddies, i.e. time-dependent swirls with distance scales of under 100 kilometres and time scales of around a month. The ambitious EU-funded EERIE project will develop improved Earth system models, harnessing Europe's pre-exascale computers and considering European ocean mesoscale eddies in preparation for the next Intergovernmental Panel on Climate Change report.

More info: eerie-project.eu

This work has received funding from the Swiss State Secretariat for Education, Research and Innovation (SERI) under contract #22.00366.

Funded by the European Union

This work was funded by UK Research and Innovation (UKRI) under the UK government's Horizon Europe funding guarantee (grant number 10040510).