



Environmental and coastal planning and development

MELODY

USING ARTIFICIAL INTELLIGENCE TO BETTER UNDERSTAND, MODEL AND PREDICT THE OCEAN-ATMOSPHERE INTERFACE

Some of the main challenges in ocean-atmosphere climate science are understanding, modelling, predicting and reconstructing both small and large-scale processes and the associated scale interactions.

Artificial Intelligence (AI) provides new paradigms for studying these processes, based on in-depth exploration of the masses of observation and simulation data available.

The MeLODy project aims to link the conventional physical paradigms in earth sciences with AI methods and strategies, in order to develop new approaches to identification based on data from representations of geophysical dynamics.

Partners

Companies

Ocean Data Lab, Brest
Ocean Next, Saint-Martin d'Hères

Research centers

IMT Atlantique Bretagne-Pays de la Loire,
Laboratoire Lab-STICC, Brest [\[Project Developer\]](#)
Ifremer LOPS, Brest
Inria, Grenoble
Inria, Rennes
Institut des Géosciences de
l'Environnement (IGE), Saint-Martin
d'Hères
Laboratoire des Sciences du Climat et de
l'Environnement (LSCE), Gif-sur-Yvette
Sorbonne Université, Laboratoire
d'informatique de Paris, Paris

Funder

Agence Nationale de la Recherche

Labelisation

06/09/2019

Overall budget

2657 K€