Activity 2 - Ocean turbulence

Introduction

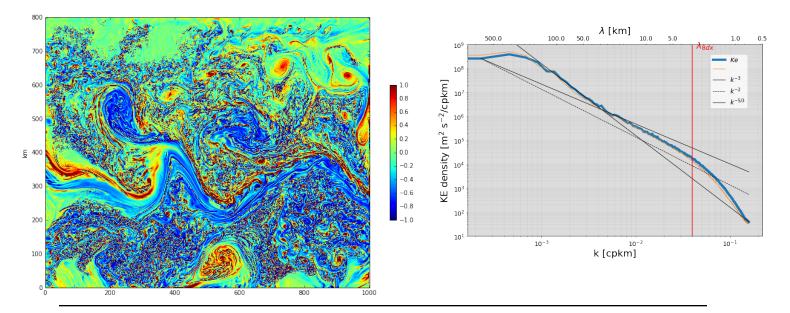
During this activity, we will analyse outputs from realistic ocean simulations.

Get the data

Files containing roms outputs are available here: /forums/public/pub/Data/

- Atlantic_for_turb.nc is a 5 km resolution simulation of the Atlantic ocean
- **GS** for turb.nc is a 500 m resolution simulation of the Gulf Stream after separation

An example notebook with 1d and 2d spectra is available here: jgula.fr/Turb/



Ocean turbulence

- 1. Compute the kinetic energy spectra and the tracer variance spectra at the surface for the different simulations
- 2. Compare the same spectra at depth.