

Modelling ocean circulation and variability

Anne-Marie Treguier

Hands on session

The aim of the hands on session will be to use numerical model results to study the variability of the upper ocean. The topics of study will be similar to those of the session on observations (G. Goni) and reanalysis products (B. Giese). Time scales under consideration are either the last 50 years (1958 to present) or one recent decade (1993-2004). Students will be encouraged to focus on their region of interest. We will compare global model solutions at different grid resolution (2° and $1/4^\circ$) as well a coupled vs. forced model solutions. We will use simulations carried on by the DRAKKAR group (see paper by the Drakkar group (Barnier et al) in CLIVAR exchanges, 42, http://eprints.soton.ac.uk/47576/01/Exch_42_Jul07.pdf) as well as IPCC AR4 simulations. We will examine the skill of the models in the ocean interior and closer to the coast.