



## **Study of air-sea interactions using AROME and HYCOM**

**C. Renaudie (1,2)**

(1) Meteo France, Toulouse, France, (2) SHOM (hydrographic and oceanographic service of the French Navy), Toulouse, France, (cecile.renaudie@cnrm.meteo.fr, +33 (0)5 61 07 80 63)

The goal of this study is to test two models, HYCOM (HYbrid Coordinate Ocean Model) used by the SHOM (hydrographic and oceanographic service of the French Navy) on the one hand, and AROME (Application of Research to Operations at Mesoscale) the weather forecast model currently under development at Meteo France on the other hand. In order to initialise and force both models, several oceanic observations have been performed by the SHOM in the sea of Iroise, and analyses, forecasts and observations from the atmosphere have also been gathered. Different parameterisations for surface fluxes have been used. We will present the results of this study, especially the comparisons between different surface fluxes and also the sensitivity studies on both models.