Post-doctoral position in Ecosystem Spatial Modelling

A consortium, composed of two laboratories in the University of Caen Normandy (M2C and BOREA) and Ifremer Brest is recruiting a post-doctoral fellow in the framework of the TROPHIK and ECOMANOR projects for one year, financed by the National Research Agency and Ifremer. Work locations will be in Caen (Normandy) and in Brest (Brittany), France.

The research will focus on the spatial ecosystem modelling of the English Channel to evaluate the consequences of interactions of cumulated human activities (Offshore Wind Farms, Climate Change, Fisheries, dredging deposit). The aim of this project will be to develop an ecosystem model including the Bay of Seine, to be used as a decision-aid tool for both policy-makers and scientists. The model will be both temporally and spatially explicit and will make use of the Ecopath-Ecosim-Ecospace modelling platform. The post-doc will have to establish a network of experts to retrieve all necessary data and to obtain expert advice for scenario simulation.

The work will also include development of Network Analysis indicators, to be associated with the ecosystem model, for integration in the EU Marine Strategy Framework Directive. A spatialisation of these indices will also be attempted in close collaboration with the EwE development team. The candidate will be required to travel to Barcelona to meet with the Ecopath Initiative Research Association for this purpose.

The post-doc contract will last for 12 months (with potential extension of 6 months according to success in proposal selection), beginning ideally October 1st 2016 (possible delay limited to 2 month). The successful candidate should have a PhD degree preferably in the domain of marine ecology and/or biostatistics, a proven high-impact publication record and a solid experience in ecosystem modelling, ideally in Ecospace.

Please contact Nathalie Niquil: nathalie.niquil@unicaen.fr for more information, and submission of application including recent CV, a motivation letter and pdf version of publications. Recommendation letters are welcome. Deadline for submission of application is on the 1st of September 2016.

Collaborations with

Ching Villanueva, Ifremer, Brest (Ching.Villanueva@ifremer.fr)

Jean-Claude Dauvin, M2C, Université de Caen (jean-claude.dauvin@unicaen.fr)

Marta Coll, Institut de Ciències del Mar (CSIC), Barcelona

Jeroen Steenbek, Ecopath International Initiative, Barcelona