

Postdoc Position at LEGOS (Toulouse, France) on Flow-Topography Interactions in the Gulf of Guinea

As part of the TRIATLAS European project on « South and Tropical Atlantic climate-based marine ecosystem prediction for sustainable management » (<http://triatlas.w.uib.no/>), we seek a postdoc candidate to conduct a research work on regional ocean dynamics in the Gulf of Guinea, mostly through numerical modelling.

The Gulf of Guinea is located in the Eastern Tropical Atlantic Ocean. It is a region characterized by strong seasonal ocean dynamics related to the West-African monsoon, large river discharges (Congo, Niger), known or expected flow-topography interactions (capes, islands), unusual coastal upwelling dynamics (off Côte d'Ivoire, Ghana) and overlooked mesoscale variability. All these processes can affect biological productivity.

The successful candidate will study the interactions of the regional ocean circulation with the equatorial islands of Sao Tomé and Príncipe, by comparing available high-resolution ($1/12^\circ$) NEMO regional simulations with and without islands, and preparing complementary simulations to test the sensitivity of other forcings (wind, rivers, tides) to the topography. In particular, the impact of islands will be analyzed in terms of mesoscale eddies generation, and possibly of biogeochemistry by adapting existing coupled NEMO-PISCES physical-biogeochemical simulations.

Applicants should have a PhD in physical oceanography. A background in numerical modeling, good programming skills in Matlab/Python and Fortran are required. An interest in multidisciplinary approach is necessary, and knowledge in biogeochemistry would be appreciated.

Interested candidates should send their CV, a letter explaining their motivations for the position, the name and contact email of 2 references to : Gael Alory (gael.alory@legos.obs-mip.fr), Isabelle Dadou (isabelle.dadou@legos.obs-mip.fr) and Julien Jouanno (julien.jouanno@legos.obs-mip.fr).

The postdoc, funded by IRD (Institut de Recherche pour le Développement), is expected to start in early 2020. Monthly gross salary will be in the 2500-3100 € range depending on the applicant's experience. Review of applications will be made until the position is filled. The contract will cover a period of 21 months.