



Post-doctoral position : Marine sediment time series synthesis over the last 40 ky

Duration : 22 months (1st of March 2017 - 31st of January 2019)

A post-doctoral candidate is sought in the framework of the ACCLIMATE (Elucidating the Causes and Effects of Atlantic Circulation Changes through Model-Data Integration) ERC project. The project purpose is to elucidate the links between Atlantic circulation changes and climatic changes, in particular across the rapid climatic changes observed in marine sediment and ice cores over the last 40 thousand years. The ACCLIMATE project's approach is to develop a paleoclimate data assimilation scheme using an isotope-enabled climate model. The data essentially consist in a set of consistently dated deep-sea sediment records of carbon and oxygen isotopic ratios over the last 40 ky. The successful candidate will join a research group consisting of 2 senior scientists, 2 postdoctoral assistants, one PhD student, one research engineer and 2 technicians.

The candidate will take part in the building of a database synthesizing available and newly generated Atlantic deep-sea core data over the last 40 ky. This data synthesis is being built with a particular focus on (i) the establishment of coherent chronologies and (ii) the quantification of uncertainties related to age scales and tracer interpretations. The records are selected according to quality, temporal resolution, and available dating constraints. The candidate will develop visualization tools (R or Matlab scripts) to ease the comparison of records over depth, latitude and longitude transects prior to data assimilation.

Applicants should hold a PhD in paleoclimatology and have experience with paleoclimate reconstructions, chronological issues in climatic archives or data syntheses, have strong writing skills and a demonstrated ability to work in a team environment.

This postdoctoral position will be hosted at the Laboratoire des Sciences et de l'Environnement at Gif-sur-Yvette and will be awarded the standard CNRS postdoctoral stipend.

Applicants should submit a CV, contact information for three references, a statement of research and interests, and two relevant publications, by e-mail before March 20 2017.

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