Postdoctoral fellowship in Earth System Modelling

We seek a motivated candidate to carry out development, testing and evaluation of the Earth System Model IPSL-ESM and to produce simulations that will be analyzed within the framework of CMIP6 (Coupled Model Intercomparison Projects Phase 6). The developments will include a more physical parameterization of dust emissions taking into account its mineralogy. The evaluation will focus on a newly added parameterization of the secondary organic aerosol (SOA). A number of sensitivity studies will be carried out to quantify the radiative forcing contribution of each aerosol component and how they modify the atmospheric temperature structure. Specific diagnostics will be developed to compare simulated concentrations and deposition of aerosol components to observations. These diagnostics will serve for the evaluation of all ESMs from the CRESCENDO project. The successful candidate will take part in international meetings, workshops and reporting.

The candidate should have a Master degree or a PhD in atmospheric chemistry or aerosol science, Earth system modeling or Environmental Science, and show good organizational skills. A previous experience in high-performance computing would be a plus.

The fellowship will be hosted by Yves Balkanski at Laboratoire des Sciences du Climat et de l'Environnement in Gif-sur-Yvette, France. It will be awarded the standard CNRS postdoctoral stipend. The appointment is for two years.

Please send a complete application package by email until March 31st to Yves Balkanski (yves.balkanski@lsce.ipsl.fr) and Anne Cozic (anne.cozic@lsce.ipsl.fr). Application package should include a resume, contact information with three references, a statement of research interests and accomplishments.