



#RÉGION RÉUNION



MOUV.RE project : Post-Doctoral Position, 2 years, starting June 2021

MOdélisation des rayonnements UV dans la Région ouest de l'océan indiEn

Coupling of a Numerical Weather Prediction model or a regional climate model with a Radiative Transfer model, to improve UV forecasting.

Job : Research Engineer or Postdoctoral position

Level : PhD

Mission :

Within the framework of the MOUV.RE project selected under the AMI FEDER 2020 (Europe/French government/regional council) to improve UV forecasting. The candidate will be working within the LACy Lab for a period of 24 months as a research engineer, to provide scientific support to the project under the responsibility of Prof. Thierry Portafaix, project leader.

In this context, he will be assigned to the following tasks and actions :

- Implementation of surface UV radiation modelling tools, at different spatial scales, for the Western Indian Ocean and Reunion Island in particular. She/he will have to set up the coupling of a radiative transfer model with the different models of Météo France, in particular the Arôme Océan-Indien NWP model and a regional climate model.
- Validation of outputs using ground-based (UV-Indien network) or satellite (OMI, GOME 2, TROPOMI) measurements.
- Coupling of a radiative transfer model with a Digital Elevation Model and production of various high-resolution UV radiation climatological maps over Réunion.

The main objective is to produce high-resolution short-term forecasts for Reunion Island and, on the other hand, to produce UV tools that can be used by various other fields of knowledge. For the latter objective, the research engineer will have to provide products intended for actors in various fields: health, ecology and environment, building, etc..., in the form of monthly climatological index maps, adapted to the various targeted subjects.

The work will be carried out in close collaboration with the people involved in UV measurement and modelling at LACy, but also possibly with the scientific teams at CNRM (Météo-France - Toulouse) or Météo France Réunion.

He/she will have to report monthly on his/her activities to the project leader using the SINCHRO application. With regard to the conditions of funding, and except for duly authorised part-time work, no complementary or accessory salaried activity (such as teaching) will be authorised. He/she must devote 100% of his/her working time to the project.

Workplace: University of La Réunion (LACy), Moufia campus, with strong interactions with LACy researchers and staff working on the UV-Indien project.

Salary: 24-month fixed-term contract, salary scale for ANTs at the University of La Réunion Level IR, Index 550

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