



CNRM, UMR 3589

## SEMINAIRE CNRM

*Mardi 14 mars 2023 à 10h00*

***How the land surface impacts the atmospheric boundary layer and precipitation***

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**en salle Joël Noilhan, CNRM**

Lien BJ : <https://bluejeans.com/568029304/7652>

### **Abstract:**

Over the past decades, it has become clear that the land surface can significantly impact atmospheric conditions, leading for instance to enhanced climate variability and extremes. Soil moisture conditions have received the main attention, but more recent studies have shown that land cover itself is another important factor. In this talk, several recent studies on the link between soil moisture and energy balance partitioning at the land surface on the one hand, and their impacts on the atmosphere on the other hand will be discussed. These studies use a combination of data analysis, both from local observations and high-resolution gridded datasets, and modelling using regional climate models and more conceptual models of the coupled land-atmosphere system. Impacts of soil moisture on temperatures during heatwaves will be discussed, but also the impact of forest cover on clouds and rainfall.