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SEMINAIRE CNRM

jeudi 14 décembre 2023 à 11h

DES CANICULES MARINES AUX SCÉNARIOS D'AFFORESTATION : PRÉDICTION RÉGIONALE ENVIRONNEMENTALE AU ROYAUME-UNI

par Ségolène BERTHOU

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en salle Joël Noilhan

Lien BJ : https://bluejeans.com/715108137/4349

Abstract :

Regional Environmental Prediction is an ambitious flagship project between the Met Office, many UK institutions and UM partners to couple all our regional prediction systems at km-scale for both weather and climate timescales: atmosphere/land/rivers/ocean/waves/marine biogeochemistry/chemistry and aerosols. The aim is to better capture fine-scale feedbacks between Earth-system components to improve the understanding and prediction of our environment.

I will be presenting two recent highlights involving many researchers in the UK and Ireland. The first one is a better understanding of the unprecedented marine heatwave in June 2023 over the Northwest European shelf. The marine heatwave contributed to 2/3 of the exceptional +0.9K record breaking of June monthly mean temperatures over the UK. I will present its origins, its feedback on the UK weather and its future rate of recurrence. The second one is the effects that an ambitious but realistic afforestation scenario may have on the water cycle in the UK using a modified land-cover for UK-Climate Projection-2.2km.