

Modelling soil erosion and sediment redistribution under global change in different climatic contexts

Rossano Ciampalini, PhD

rossano.ciampalini@agrosupdijon.fr - AgroSup Dijon, France



Climate projections for the XXI Century predict non-negligible changes in temperature, rainfall amount, intensity and distribution, runoff, river flow and drought frequency.

In such a framework of uncertainties and complexity a better understanding of climate change impact on the water-soil-sediment system is unpostponable.

We propose this seminary with the aim to discuss, under a modelling approach, the evidence of climate change effects on soil erosion processes detected at small-average catchment scale focusing on vegetation feedbacks, land use and agricultural practices.

Keywords: Soil Erosion Modelling, Hydrology, Climate Change, Land Use change.