

Séminaire du Groupe Transversal Neige

LGGE, salle L. Lliboutry

Jeudi 24 février 2011, 16h

« Structural and Parameter Uncertainty in Snow Models »

Richard Essery

Université d'Edimbourg

Projects comparing the performance of snow models, such as SnowMIP, have attracted the participation of groups running a large number of different models and show a wide spread in model simulations of melt rates. Despite this diversity, model documentation shows that a small number of parameterizations for processes such as snow albedo decay and compaction are reused in many models. To systematically address the question of whether model spread results from weaknesses in particular parameterizations or uncertainty in parameter values, a model is now being developed which will be able to run a selection of commonly used parameterizations in every possible combination. The selected parameterizations will be reviewed and preliminary results using recent data from Col de Porte will be discussed.