



The COST 731 Action ‘Propagation of Uncertainty in Advanced Meteo-hydrological Forecast Systems’

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The COST 731 Action addresses the problem of forecasting (heavy) precipitation events and the corresponding hydrological processes in connection with the uncertainty inherent in this task. The actual threat to society that potentially occurs from intense (and thus rare) events only becomes effective after the involvement of the hydrosphere, while the uncertainty in the prediction of a potential flooding event will have to take catchment behaviour and antropogenic behaviour into account in order to decide upon possible actions by local authorities.

In this presentation an overview of the COST 731 is given and the progress made in the first two years is presented. Also, it will contain a prospect on the upcoming MAP D-PHASE (Demonstration of Probabilistic Hydrological and Atmospheric Simulation of Flooding Events in the Alps), a WMO/WWRP Forecast Demonstration Project in the Alpine region which will be run June - November 2007 with about 20 participating groups, including various different end users with links to local authorities. A main focus of COST 731 and D-PHASE is the quantification of forecast uncertainty and its propagation through a meteo-hydrological forecast chain.