Flash-flood modelling of small Romanian catchments with the Vflo distributed model

M.-V. Birsan (1), M. Pancescu (1), M. Matreata (1)

(1) National Institute of Hydrology and Water Resources Management, Bucharest, Romania

Vflo is a fully distributed, physically-based hydrological model capable of combining multi-sensor input data in order to simulate the rainfall-runoff process at the dimension of a catchment. The channel and the overland flows are simulated using the kinematic wave approach. Here we present the application of the Vflo model on some small hydrographical basins in Romania.