FM9S_12592

XXI International Congress of Theoretical and Applied Mechanics
Warsaw, Poland, August 15–21, 2004

High Resolution Modelling of Atmospheric Flow over Southern Poland

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A nonhydrostatic model of atmospheric flows EULAG is set up over southern Poland on a grid with 1 km horizontal resolution. The goal is to test a short-term numerical weather prediction over complicated topography with explicit treatment convective processes. Boundary and initial conditions are interpolated from routine mesoscale hydrostatic UMPL model running at 17 km resolution. The case study of evolving fonvection forced by topography will be presented.

View the extended summary