EMS Annual Meeting Abstracts
Vol. 8, EMS2011-134, 2011
11th EMS / 10th ECAM

Forecasting the weather
- ensemble techniques
in probabilistic weather prediction

The ARPA meteorological stations of Lazio (Italy): preliminary results after one year measurements

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A net of 8 meteorological stations was deployed by the italian agency for the environmental protection ARPA (Agenzia Regionale per la Protezione Ambientale) over the region of Lazio, Italy.
The purpose of the net is to monitor the meteorological and micrometeorological parameters as well as the radiative fluxes over the all region and assimilate these data into the air quality forecasting model of ARPA. All stations include a 10-m instrumented tower with a thermo-hygrometer, a 3-axial sonic anemometer, a net radiometer and a pluviometer. The details of the instrumentation and the data validation as well as the preliminary results after one year measurements will be presented.
The local circulation characteristics and its variability over Lazio is studied for different seasons. The observations of the meteorological and turbulent variables are compared with the operative model results of ARPA Lazio.