



Verification of uncertainty associated to an ensemble nowcasting system

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Nowcasting methodology applied in this work is based on a semi-lagrangian advection scheme in which the initial condition is represented by a steering field defined through a multi-scale recursive cross-correlation analysis of radar reflectivity pattern.

The use of a probabilistic approach enables the analysis of the uncertainties embedded in the motion field generation mechanism and their propagation in the forecast. In particular an ensemble of motion fields arises from the independent modification of the parameters that enter in steering field generation. Every member of this ensemble is used as initial condition in the advection scheme.

The issue of this work is to understand which parameter in steering field generation better represent the variability of forecast pattern and to quantify the uncertainty of forecast field. To reach this goal many events will be analyzed.