



## **VAD data experiments using the INM weather radar network**

**C. Salvador**, B. Navascués

1. Instituto Nacional de Meteorología, Spain

csalvador@inm.es

VAD (Velocity Azimuth Display) data from the INM weather radar network during October 2002 have been introduced through the HIRLAM 3Dvar assimilation system. Inspection of innovations has allowed to observe the existence of biases in some radars, more pronounced at night. New screening procedures have been introduced to improve the quality control of these data. Also observation errors have been tuned using co-located radiosonde wind innovations.

New parallel experiments with these modifications have revealed a positive impact of INM VAD data on subsequent HIRLAM forecasts.

The results presented in this work include the objective verification against observations and diagnostics of the assimilation performance in both parallel experiments in which VAD data were used passively and actively respectively.