



## **High resolution probabilistic precipitation forecast over Spain combining the statistical downscaling tool PROMETEO and the INM short range EPS system (INM/SREPS)**

**A. S. Cofino** (1), B. Orfila (2), C. Santos (2), J. M. Gutierrez (1)

(1)Applied Meteorology Group. Department of Applied Mathematics and Computer Science, University of Cantabria. Santander ,(SPAIN). (2)Spanish Meteorological Institute (INM). Madrid, (SPAIN)

The well tested statistical downscaling tool PROMETEO has been applied to the output fields of the INM Short Range Ensemble Prediction System INM / SREPS to forecast precipitation over Spain with high spatial resolution over Spain. About 5000 pluviometric stations and the ERA-40 Re-analysis are the predictands and predictors used to produce probabilistic and deterministic 24-hours precipitation forecasts. Comparison between the SREPS Direct model outputs and the PROMETEO ones are compared using ad-hoc scores.