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# PROJECTE DE DOCTORAT INDUSTRIAL EXPEDIENT PILOT DI 014/2012

## DADES DE L'EMPRESA I DE L'ENTORN ACADÈMIC

### Títol del projecte

Processament d'Ecos de Radar Meteorològic no precipitants

### Empresa

Servei Meteorològic de Catalunya (METEOCAT)

### Responsable de l'empresa

Nicolau Pineda

### Universitat

Universitat de Barcelona

### Director/a de tesi

Joan Bech (UB)

### Treballador/a de l'empresa i doctorand/a

Patricia Altube Vazquez

## BREU DESCRIPCIÓ DEL PROJECTE DE RECERCA

The main objective of the PhD research project is to assess and improve the quality of weather radar observations from on-line data collected by the three operative radars of the Radar Network of the Meteorological Service of Catalonia (XRAD of the SMC). The strategies and algorithms to be implemented on behalf of quality need to consider and respect the continuous and uninterrupted operation and the maximum processing time allowed by the scanning strategy for a real-time data and product supply.

Particular goals:

- Implementation of operative tools for on-line assessment of the weather radar performance using information derived from previous (or initial) characterization of non-precipitation echoes.
- Development and assignation, to each pixel of the radar image, of a quality descriptor that accounts for a series of intrinsic/extrinsic phenomena.



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