## Implementing a Data Assimilation System: Preliminary Results.

- I.R. Gelpi(1)(2), S. Gaztelumendi (1)(2), J. Egaña (1)(2)., K. Otxoa de Alda (1)(2)
- (1) Basque Meteorology Agency (EUSKALMET). Parque tecnológico de Álava. Avda. Einstein 44 Ed. 6 Of. 303, 01510 Miñano, Álava, Spain.
- (2) European Virtual Engineering Technological Centre (EUVE), Meteorology Division. Avda de los Huetos 79, Edificio Azucarera, 01010 Vitoria-Gasteiz, Álava, Spain.

igelpi@euve.org

To obtain a good numerical weather forecast is necessary to know, the best as possible, the actual state of the atmosphere (initial conditions). Data assimilation combines measured data with information coming from numerical models. The meteorological data assimilation supplies the model representation more consistent with observations.

Nowadays a large quantity of data from many places in the world is available. This amount of observation, with data assimilation techniques, permits to create an objective approach to the real atmospheric situation. This result will be used as initial conditions of numerical weather prediction models (NWP).

The objective of this work is to test the behaviour of a data assimilation scheme into a NWP model. This assimilation scheme should be able to work with several datasets from different sources: SYNOP, Buoy, METAR, Automatic weather stations and RAOB soundings.