# Atmospheric modelling at the University of Lisbon CGUL - Centro de Geofísica

### Pedro Miranda, atmospheric modelling

Miguel Teixeira, post-doc, turbulence (analytical)
Antonia Valente, post-dic, orographic processes (NH3D)
Rui Salgado, PhD student, surface processes (MesoNH)
Pedro Soares, PhD student, PBL clouds (MesoNH)

João Ferreira, PhD student, upwelling (MM5+HYCOM)> started 2002

Carlos Pires, data assimilation Carlos Camara, remote sensing Isabel Trigo, remote sensing Ricardo Trigo, statistical climatology

Logistics: 16 node cluster (Pentium IV 2GHz, 512Mb, 1 Gigabit); MPI, PBS

## Modelling projects at CGUL

#### Based on MM5 (still at a preliminary stage)

- Study of the variability of upwelling near SW Iberia
  - Implementation of MM5 (done)
  - Implementation of the ocean model HYCOM (done)
  - Design of a coupling scheme (ongoing)
  - Long runs of both coupled and uncoupled models (results)
- Low-level wind prediction for eolic energy
  - Case study in Madeira (results)

#### **Project submitted (MM5)**

• Weather prediction at the Açores: with the Institute of Meteorology

#### With other models

- Gravity wave drag parameterisation (NH3D), Low level wind
- Cloud parameterization (MesoNH)



















