ModObs: "Atmospheric modelling for wind energy, climate and environment applications: Exploring added value from new observation technique"

A new Marie Curie Research Training Network in Europe

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ModObs is a European Training Network of eleven European Institutes and Companies, funded within the FP6 Marie Curie Programme, addressing the improvement of atmospheric boundary layer (ABL) models to investigate the interplay of processes at different temporal and spatial scales, and to explore the added value from new observation techniques. The overall goal is to bring young scientists to work together with experienced researchers in developing a better interaction amongst scientific communities of modelers and experimentalists, using a comprehensive approach to "Climate Change", "Clean Energy assessment" and "Environmental Policies", issues. ModObs is a multi-sectorial network uniquely linking scientists within atmospheric physics,

engineering and satellite remote sensing, to end-users such as companies in the private sector, all with the appropriate expertise to integrate the most advanced research methods and techniques in the various topics here covered. ModObs will exploit a holistic interdisciplinary approach combining atmospheric measurements in-situ and observation from satellite with multiple interlinked modeling techniques. New models will allow exploring the nature of changes in several major air-sea-land interaction process cycles on short- and long- term time scales, and space scales from local to regional. This will provide a better understanding of the drivers of short- and long- term perturbations, infer possible relationship with climatic variability, and attain scenarios of climate change impact on energy i.e. wind energy, and environmental issues. At present, there are ten PhD students supported by the network and this poster describes their scientific and networking activity. The Network home page is at http://www.ModObs.WindEng.net.